

CURRICULUM VITAE

NAME: **Dr BRIJ GOPAL**
DATE OF BIRTH: 07 March 1944
NATIONALITY: Indian (by birth)

PERMANENT ADDRESS: 41, B- Shiv Shakti Nagar, Jagatpura Road,
JAIPUR 302017 (India)

OFFICE ADDRESS: Centre for Inland Waters in South Asia
41, B-Shiv Shakti Nagar, JAIPUR 302017
and
Village Peera, near Khajuraho Rly Station,
Bameetha Road, Khajuraho, M.P.

Email: **brij.ciwsa@gmail.com ;**
Mobile: **(91) 9414044283**

EDUCATIONAL QUALIFICATIONS

B.Sc.	Zoology, Botany, Chemistry	Agra University, Agra	1961 II div
M.Sc.	Botany	Agra University, Agra	1964 (First Class) (5th in order of merit)
Ph.D.	Botany - Ecology	Banaras Hindu University	1968

RESEARCH EXPERIENCE: over 50 years (from 1963 -)

Conducted several research projects funded by Indian and overseas agencies
Supervised 17 Ph.D. Theses, 12 M.Phil theses, and several post-Doctoral Research Associates

TEACHING EXPERIENCE: 40 years

Served as Part-time Lecturer, SGTB Khalsa College, Delhi University, Delhi (1964)
Lecturer in Botany, Agra College, Agra (1970-71);
Assistant Professor of Botany, Rajasthan University, Jaipur (1972-1985)
Assoc. Professor & Professor of Environmental Sciences, Jawaharlal Nehru Univ, 1986-2009
Visiting Professor, Swiss Federal Inst. Technology, Geobotany Inst., Stiftung Rübél, Zurich,
Switzerland; (Feb to Sept 1984)

PUBLICATIONS

250 Research and Review papers, 45 Authored or edited books; 70 other articles

AWARDS:

1. **Science Academy Medal for Young Scientists**, 1974 (First recipient)
from the Indian National Science Academy, New Delhi
2. **Akhil Bhartiya Vaniki Sahitya Puraskar** 1980 (All India Prize for Forestry Literature in Hindi)
(Award from FRI and Colleges, Dehradun for Best book on Forestry in Hindi)
- (for textbook on Ecology)
3. **Gold Medal of Vigyan Academy**, Allahabad for best science book in Hindi - (textbook on Ecology)
4. **Alexander von Humboldt Fellowship** for Post-Doctoral work in Germany at the
Max Planck Institute of Limnology, PLÖN; 1982-83 and five re-invitations
5. **International Fellow Award**, 1997 by Society of Wetland Scientists, USA
(*only recipient from any developing country except China*)
6. **Naumann-Thienemann Medal 2004**, by International Association of Limnology
First ever award outside Europe & North America
7. **Fellow, Inland Fisheries Society of India**, 2005

IMPORTANT POSITIONS HELD (as in 2017)

- Chairman of the SIL Working Group on Inland Waters of Tropical Asia, 2013-
- Member, Wetland Working Group of INTECOL 1980-
- Coordinator of the Centre for Inland Waters in South Asia. 2010-
- Member, NGT appointed Principal Committee for Restoring River Yamuna
- Member, NGT appointed Expert Committee in the case of Textile industry effluents in Pali (Rajasthan)
- Member, NGT appointed Expert Committee in the case of Sahibabad drain, Gaziabad
- Partner, UNESCO Chair on River & Culture, University of Tours, France
- Member, Task Force on Agriculture & Allied Sectors, State Planning Commission, Chhattisgarh
- Chairman, Standing Working Group on Wetlands, Rivers, etc., State Planning Commission, Chhattisgarh,
- Member, SubCommittees on Water Education for India's Administrative Service Officers, and the Revamping of National Water Academy into an Apex Institute (under Ministry of Drinking Water & Sanitation, and the Ministry of Water Resources, River Development & Ganga Rejuvenation
- Member of the Management Board of Centre for Ganga River Basin Management and Studies (under National Mission for Clean Ganga, Ministry of Water Resources)
- Member, National Advisory Committee of Natural Heritage Division, INTACH, New Delhi.
- Advisor, Wetland Conservation Programme, WWF-India, New Delhi

Editorial Positions in Scientific Journals

1. Editor, *International Journal of Ecology and Environmental Sciences* (1974-)
2. Member, Editorial Board of
Hydrobiologia (Kluwer Academic Publ., Netherlands) (1988 -)
Wetlands Ecology and Management (SPB Academic, Netherlands) (1990 -)
River Research and Application (= *Regulated Rivers: Research & Management*) (Wiley, U.K.) (1991-)
Journal of the Inland Fisheries Society of India (2011-)
Marine and Freshwater Research (CSIRO, Australia) (2012-15)

IMPORTANT POSITIONS HELD (PAST)

International Organisations

1. Member, UNESCO Expert Panel, MAB Project 5 "Impact of Human Activities on Freshwaters" (London, 1972)
2. Observer (of Commonwealth Human Ecology Council, London) at the United Nations Conference on Human Settlements, Vancouver, 1976
3. Convener, INTECOL's First International Wetlands Conference, New Delhi, September 1980
4. Member, Scientific Advisory Committee, SCOPE-UNEP Project on Wetlands (1981-1985)
5. Advisor, International Organisation of Human Ecology (1986-88)
6. Member, Project Evaluation Panel, Challenge Programme, CGIAR, 2003
7. Lead Author, Chapter 4 of AR4-Working Group II, of Intergovernmental Panel on Climate Change (IPCC) 2004-2007 (IPCC Receive Nobel Peace Prize, 2007)
8. Chairman, SIL Committee on Limnology in Developing Countries (1987-2007)
9. Member, SIL Conservation Committee (1987-2004)
10. Member, SIL - Tonolli Fund Committee (1987- 2007); Futures Committee (2004-06)
11. Executive Vice President, Intl. Society of Limnology (SIL), 2007-2013
12. Member, International Organising Committees of INTECOL's International Wetland Conferences from 1980 to 2016 (ten conferences – every four years)
13. Member, Board of Directors, International Society of River Science (ISRS), 2007-2012

National Governmental Bodies

1. Coordinator, WWF-India and Govt. of India's Training Workshop on Wetland Management, Bharatpur, February 1995; supported by Ramsar Bureau
2. Member, Punjab State Committee for Biodiversity, 1995-97 (Governor's Nominee)

3. Member, Research Advisory Committee, Central Inland Capture Fisheries Research Inst, Barrackpore. Nominated by the Indian Council of Agricultural Research, New Delhi. 1995-97
4. Member, Steering Committee for 10th Plan Programme on Tribal Development, Planning Commission, Govt of India 2001-02
5. Member, Working Group on Environment, 10th Plan Programme of Ministry of Environment & Forests, Planning Commission, Govt of India, 2001-02
6. Member, Quinquennial Review Team for Central Inland Fisheries Research Institute, Barrackpore (Committee appointed by the Indian Council of Agricultural Research, New Delhi), 2003
7. Member, SubCommittee on River Regulation Zone, National River Conservation Directorate, Ministry of Environment & Forests, Govt of India , 2002
8. Member, Expert Committee for the evaluation of theses for Jawaharlal Nehru Award of the ICAR, 2004
9. Member, Steering Committee, National River Conservation Plan, Ministry of Environment & Forests, Government of India, New Delhi. (Notification in Government of India Gazette Part I, Section 1, 11 December 2003) –resigned 2007
10. Member, Planning Commission’s SubGroup on Biodiversity and Traditional knowledge (for 11 Plan), Ministry of Environment & Forests, New Delhi
11. Member, Planning Commission’s Working Group on Rivers and Lake Conservation (for 11 Plan), Ministry of Environment & Forests, New Delhi
12. Member, Working Group on Minimum Flow, formed by the Water Quality Assessment Authority, Government of India, 2003-07
13. Member, Standing Group-I of Water Quality Monitoring Committee (under Water Quality Assessment Authority), May 2004--2006
14. Member, Ecosystem Research Committee, Ministry of Environment & Forests, Govt of India 2003-06
15. Member, Committee, National Lake Conservation Plan, Ministry of Environment & Forests, 2003-09
16. Member, Expert Group, National Lake Conservation Plan, Ministry of Environment & Forests, 2003-2009
17. Member, Preparatory Committee, 12th World Lakes Conference, National River Conservation Directorate, Ministry of Environment & Forests, New Delhi 2005
18. Member, International Scientific Committee and the National Organising Committee, 12th World Lakes Conference, National River Conservation Directorate, Ministry of Environment & Forests, New Delhi 2006-07
- 19 Member, Committee on Regulatory Framework for Wetlands, Ministry of Environment & Forests, New Delhi 2006
20. Member, Steering Committee on Conservation & Management of Harike, Kanjli and Ropar Wetlands, 2000-2003, 2003-2006 (Committee constituted by the Governor of Punjab)
21. Member, Monitoring and Coordination Committee for Conservation of Dal-Nigeen Lakes, Govt of J&K; resigned 2008
22. Member, Expert Appraisal Committee for EIA Projects in Mining (non-Coal), Ministry of Environment & Forests, Govt of India, New Delhi 2007-09 – resigned 2007
23. Member, Hydrological Information System Management Group- Data Use and Data Dissemination (HISMG-DD), Ministry of Water Resources, Govt of India, 2007
24. Chairman, Quinquennial Review Team for the National Research Center on Coldwater Fisheries, Bhimtal (ICAR), 2008 (appointed by Secretary, DARE, and Director General, ICAR)
25. Member, Expert Committee appointed by the Himachal Pradesh High Court in the Civil Writ Petition by NHPC & PSEB versus the Govt of Himachal Pradesh in the matter related to Environment Flow in rivers
26. Reviewer, Mid-Term review of WWF’s HCP Project “For a Living Ganga”
27. Coordinator of Theme on Water and Ecosystems for the IWRM Project of SACIWATERS (CapNet-funded) : Organised training workshops on the subject and edited a book on the subject
28. Member, Supreme Court-mandated Committee in case of Nirma Ltd, Bhavnagar (involving a wetland)
29. Member, Himachal Pradesh State Council on Climate Change (chaired by the Chief Minister), 2010-
30. Honorary Theme Editor on Limnology of Rivers and Lakes of Asia –in the Encyclopedia of Life Support Systems, published by UNESCO-EOLSS Joint Committee, France
31. Member, Expert Groups of Ecosystems for Life Programme of IUCN – [Wetland Governance, Environmental Flows, Mangroves, Biodiversity]
32. Reviewer for Project Reports of IUCN – Ecosystems for Life Programme;
33. **Member of the MOWR-DR-GR Committee on Restructuring of CWC and CGWB**

UNIVERSITIES

1. Examiner for Ph.D. thesis, University of Natal, South Africa
2. Examiner for Ph.D. thesis, Victoria University, Australia
3. Examiner for Ph.D. thesis, Kathmandu University, Nepal
- 3a. Examiner for Ph.D. thesis, Cairo University, Giza, Egypt
- 3b. Examiner for Ph.D. thesis, Sultan Qaboos University, Muscat
4. Evaluator for Faculty promotion, Griffith University, Australia
5. Evaluator for Faculty promotion, Institute of Advanced Studies, Kandy, Sri Lanka
9. Member Selection Committee for Professor, Pondicherry University, Pondicherry
8. Member Selection Committee for Professor, Assam University, Silchar
10. Member Selection Committee for Professors, Assoc. Prof. etc., Banaras Hindu University, Varanasi
11. Member Selection Committee for Professors etc, TERI School of Advanced studies, New Delhi
12. Member Selection Committee for Professor, GB Pant Univ. Agricultural Sci. & Technology, Pantnagar
13. Member (V.C. nominee), Selection Committee, Principal, MKP-PG College, Dehradun, 2007
21. Nominee of HRD Ministry for selection of Faculty in School of Planning & Architecture, 2008-
22. Member (V.C. nominee), Selection Committee, Principal, DAV College, Dehradun, 2009
23. Member (V.C. nominee), Selection Committee, Principal, Girls PG College, Roorkee, 2010
24. Member of the Committee to formulate courses in Environ. Science, Central Univ. Bihar, Patna
25. Member, Selection Committee for Professor, Asst Prof. in Environ. Science, and Biotechnology, Central Univ. Bihar, Patna
6. Member, Board of Studies in Botany, Kurukshetra University 1988-91;
7. Member, Board of Studies in Botany, Agra University 1987-89;
8. Member, Board of Studies in Environmental Science, Osmania University, Hyderabad
15. Member, Board of Studies, School of Environmental Studies, Delhi University, Delhi, 2001-04
18. Member, Board of Studies in Environmental Science, Kurukshetra University, Kurukshetra
16. Chairman, Research Advisory Committee of the National Research Center on Coldwater Fisheries, Bhimtal (ICAR), 2004-2007
17. Member, Research Advisory Committee, Central Inst. of Fisheries Education, Mumbai (deemed Univ.), 2005-07
26. Chairman, Research Advisory Committee, Central Inland Capture Fisheries Research Inst, Barrackpore. (Nominated by the Indian Council of Agricultural Research, New Delhi) 2013-15
19. Member, Research Board, School of Planning & Architecture, New Delhi
15. Member, Academic Council of TERI School of Advanced Studies (Deemed University), New Delhi, 2003-06
20. Member, Court of JNU, New Delhi, 2004

National NGOs

1. Chairman, Science & Environmental Education Society, 1985-2006
2. President, Society of Environmental Scientists (India), 1991-94
3. Secretary, Indian Association of Limnology & Oceanography, 1989-92
4. Secretary General, National Institute of Ecology (India) 1978-2008; Vice President 2009-15;
5. President, National Institute of Ecology (India) 2018-2020

Invited Keynote Speaker OE Plenary Speaker at international and national conferences

GBIF Symposium on Aquatic Biodiversity, Brussels, 2008
Delivered Foundation Day lecture at Central Inland Fisheries Res. Inst., Barrackpore, March 2012
Invited resource person for Workshop on Urban Lakes, Peradeniya, Sri Lanka (May 2012)
9th International Wetlands Conference, Orlando (USA), June 2012
(also at 8th conference in Brazil, 2008)
Brazil National Wetland Conference (2012);
International wetland Symposium, Nepal (2012);
Wetland Forum, Nanjing (China) 2015
Wetland Forum, Nanjing (China) 2016

Invited Keynote address at First Asian Conference on Water and Land Management for Food and Livelihoods Security (IGKV, Raipur, India) 2017
Invited Speaker, Wetlands Conference, UP Forest dept, Saifai (U.P.) 2016
Invited Speaker, Wetlands Workshop, State Planning Commission, IGKV and NIE, Raipur 2017
Invited Speaker, Wetlands Seminar, GEER foundation, Gandhinagar (Gujarat) Jan 2018
Invited speaker, Seminar on Traditional Water infrastructure; CEDS Jaipur, Jan. 2018
Invited Chief Guest & UM Lodha Memorial Lecture, Sewa Mandir, Udaipur, Feb. 2018

PROJECTS

1. Gopal, B., Bandyopadhyay, S., Sah, M. and Chatterjee, K. 1991. Land application of municipal sewage for resource recovery: the Indian experience. A report for Ganga Project Directorate, Govt. of India. National Institute of Ecology, New Delhi.
2. Gopal, B. 2002. Rapid Survey of Upper Catchment of River Yamuna. Report to the National River Conservation Directorate, Ministry of Environment & Forests, Govt of India. National Institute of Ecology, New Delhi
3. Gopal, B., Goel, U., Chauhan, M. and Bansal, R. 2002. Regulation of Human Activities Along Rivers and Lakes – A Background Document. Report to the National River Conservation Directorate, Ministry of Environment & Forests, Govt of India. National Institute of Ecology, New Delhi.
4. Singh, S.P., Gopal, B., Kathuria, V. and Chauhan, M. 2003. Integrated Management of Water Resources of Lake Nainital and its Watershed: An Environmental Economics Approach. Report submitted to the Indira Gandhi Institute of Development Research (Mumbai). Kumaun University, Nainital, and National Institute of Ecology, New Delhi.

Published as:

- Singh, S.P. and Gopal, B. 2002. **Integrated Management of Water Resources of Lake Nainital and its Watershed: An Environmental Economics Approach.** EERC Working Paper Series: WB-8. Ministry of Environment & Forests, New Delhi; Indira Gandhi Institute for Developmental Research, Mumbai, and World Bank, Washington, DC. 160 pp.
5. Gopal, B., Banerjee, D.K. and Rao, T.R. 2003. Enhancing Water Flow in River Yamuna at Delhi: Research and Action Plan. Report to the National River Conservation Directorate, Ministry of Environment & Forests, Govt of India. Jawaharlal Nehru University, New Delhi.
6. Gopal, B. and Chauhan, Malavika. 2003. **Identification of Lakes for Conservation and Restoration.** Report to the National River Conservation Directorate, Ministry of Environment & Forests, Govt of India. National Institute of Ecology, New Delhi.
7. Martin, P. and Gopal, B. 2005. Managing Water Resources. Final Narrative Report. Shastri Indo-Canadian Inst.,
8. Gopal, B. 2008. **Impacts of Climate Change on Functions and Services of Wetlands of the Eastern Himalaya: A Report on 'Water, Wetlands and Hazards in the Eastern Himalayan Region: Responses to the Climate Change' for ICIMOD, Kathmandu, Nepal.**
10. Gopal, B. and K.S. Rao. 2011. **Impacts of Irrigational Water Use on the Ecosystem Services of Rivers and Wetlands in Shivna River Basin, Aurangabad - An Assessment.** Funded by WWF-India, New Delhi. National Institute of Ecology, New Delhi.
11. Gopal, B., K.S. Rao, K.G. Saxena, Jamal A. Khan and R.L. Semwal.. 2011. Building Partnerships to Support UNESCO's World Heritage Programme in India - Mid-Term Review. Report submitted to UNESCO, New Delhi. National Institute of Ecology, New Delhi.
12. Gopal, B. 2011-12. **Regional Training Workshop on Factoring Environmental Flows into Integrated Water Resources Management .** Haridwar, 6-11 December, 2012. Funded by CapNet (UNDP), South Africa.
13. Gopal, B. and Marothia, D.K. 2014-15. **Integrating the Economics of Wetland Biodiversity and Ecosystem Services in Management of Water Resources of River Ken: A study under the The Economics of Ecosystems and Biodiversity (TEEB) – India Initiative.** GIZ and Ministry of Environment & Forests, New Delhi
14. Gopal, B.; Sharma A.P.; Sharma, Subodh, and Chatterjee, S. 2014-15. **Capacity Building for Conservation of Biodiversity and Ecosystem Services of Wetlands in Relation to Global Changes.** Funder by APN-GCR, Japan