

CURRICULUM VITAE

Name: **Somnath Bandyopadhyay**
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Current Position (since May 2014): *Associate Professor*
School of Ecology and Environment Studies, Nālandā University

Key responsibilities as a Founding Faculty include teaching core and elective courses (includes Fundamentals of Ecology; Sustainable Development; Water in Sustainable Development) for Masters' students; curriculum development, admission process, hiring of faculty, organizing seminars; along with development of research.

HIGHLIGHTS

- *PhD in Environmental Sciences* from JNU, 1994, as a CSIR-UGC NET qualified scholar; Gold Medalist from University of Calcutta for both BSc (Hons) and MSc (1984 and 1986); Studied 'Environmental Economics and Policy Analysis' at HIID, Harvard University, 1999;
- *Six years of academic research* (1988-1994), through increasing levels of complexity, in aquatic ecosystems, particularly related to biodiversity changes in response to anthropogenic disturbances;
- *Eight years of conceptual inputs and management of multi-sector research on environmental policies and programmes in Gujarat* (1995-2002), leading to several ecological restoration plans, production of the 'State Environment Action Plan' and a web-linked GIS-linked database for Gujarat;
- *Eight years of strategy formulation and management of development programmes* (2003-2011) for poor and marginalised people through actions that supported innovations in natural resources management, human development and sustainable community institutions;
- *One year of basin management, environmental safeguards and structuring a knowledge centre* (2011) for the National Ganga River Basin Authority, Ministry of Environment and Forests, Government of India;
- *Two years of strategy for market-based approaches to safe drinking water* (2011-2013), promoting community safe water solutions to ensure quality, affordability and sustainability.

KEY EDUCATION

Jawaharlal Nehru University, New Delhi

- Ph.D., Environmental Sciences, 1994 CSIR-UGC scholar;
- M.Phil, Environmental Sciences, 1990 CSIR-UGC scholar.

University of Calcutta, Calcutta

- M.Sc, Marine Science, 1987 University Gold medal;
- B.Sc (Hons.), Zoology, 1984 University Gold medal.

Indian Council of Secondary Education, New Delhi

- ISC, 1981 & ICSE, 1979 De Nobili School, Dhanbad.

School of Environmental Sciences (SES), Jawaharlal Nehru University (JNU), New Delhi

Supervisor : *Dr. Brij Gopal*

Ph.D Thesis : *Ecology of the macroinvertebrate community in a floodplain wetland.*

M.Phil Dissertation: Distribution of benthic organisms in Lake Chilka in relation to salinity and sediment characteristics (includes a comprehensive review of literature and comments on the management perspectives)

Harvard Institute of International Development (HIID), Harvard University, USA

Certificate course for in-service senior professionals on "Environmental Economics and Policy Analysis", during the summer of 1999 (100 lectures, group work, dissertation).

Springfield Centre for Business in Development Ltd, Glasgow, UK

Making Markets work – training programme during the summer of 2008 (20 core sessions, 20 optional sessions).

Other in-country short-term trainings include both technical (such as on basic economics for practicing non-economists, EIA appraisals, GIS-based mapping systems) and managerial (such as on Performance Management Systems (PMS), Stress Management, Change Management, Results-based Management etc.).

KEY PROFESSIONAL EXPERIENCE (1994-2013)

Safe Water Network¹, (New York based non-profit), New Delhi

- Chief Strategy Officer 2011 – 2013;

National Ganga River Basin Authority (NGRBA²), Ministry of Environment and Forests, Government of India

- Environment Management Specialist..... 2011;

¹ Safe Water Network is a US-based non-profit entity established in 2006 by a group of American civic and business leaders to address the issue of sustainable access to safe water for under-served communities across the world (www.safewaternetwork.org)

² The NGRBA has been set up under the Chairmanship of the Hon'ble Prime Minister to clean-up Ganga, by adopting a more holistic approach; a Programme Management Group has been created by the Ministry of Environment and Forests (www.ngrba.org.in)

Aga Khan Foundation (AKF³), (Geneva based non-profit), New Delhi

- Senior Programme Officer 2005 – 2011;
- Programme Officer 2003 – 2005.

Gujarat Ecology Commission (GEC⁴), Government of Gujarat, Vadodara

- Senior Ecologist and Nodal Officer 1999 – 2003;
- Senior Ecologist 1997 – 1999;
- Ecologist 1995 – 1997.

Professional experience in environment

- *Environment Management Specialist* for the Mission Clean Ganga – a Rs 7,000 crore project – developing environment and social safeguards for investments and structuring a Ganga Knowledge Centre.
- *Nodal Officer* for the development of a **State Environmental Action Programme (SEAP⁵) for Gujarat** – the first in India – supported by the World Bank and the Ministry of Environment and Forests, Government of India. A major spin-off from this exercise is a detailed GIS-based relational database, available on-line, and recognised by the Central government as an ENVIS Centre for Gujarat (1999 – 2003);
- *Co-ordinator* for the first phase of a Department of Ocean Development, Govt. of India sponsored project on Integrated Coastal and Marine Area Management (ICMAM) plans for Gujarat. The initiative has been taken forward into a GIS-based **integrated coastal zone plan** for the Gulf of Kachchh, Gujarat (2000 – 2002);
- Other important *projects* include (i) Development of a programme for Biodiversity of Gujarat (1997); (ii) Ecological restoration plan for Alang ship-breaking yard, Gujarat (1996-97); (iii) Ecological restoration of mining sites in Gujarat (1995-96); (iv) Planning for the sustainable development of Kachchh (1995).

Experience in policies and institutions

- *advising the Bihar State Wetland Development Authority* as a technical expert;
- *presented reports to a High-Level Advisory Committee⁶ (HLAC), Govt. Of Gujarat (2003), other Boards and Governing Bodies; regular meetings and discussions with officials at state (primarily Gujarat, Bihar and Andhra Pradesh) and national level;*
- *contributed in various national and international forums and conferences* on issues related to sustainable livelihoods, resilient communities, inclusive development, integrated water management, etc.
- *served on various committees of the Govt. of Gujarat, including those for (i) developing a gender policy for the State (2002); (ii) implementing a High Court ruling on the wise use of urban and peri-urban wetlands (2001); (iii) providing environmental clearance to thermal power projects in the State of Gujarat (1998), (iv) reconsidering de-notification of the Narayan Sarovar Sanctuary in Kachchh (1998), (v) evaluating the pre-feasibility report on the development of Gulf of Khambhat (Kalpasar) prepared by Haskoning & Co., The Netherlands (1996-97) and (vi) assessing the report on water resources management plan of Gujarat prepared by TAHAL Consultants, Israel (1996);*
- *associated with governance of various civil society organizations, including (i) President, Society for*

³ The Aga Khan Foundation (AKF) is an agency of the Aga Khan Development Network (www.akdn.org/India).

⁴ Set up by the Government of Gujarat in 1992, GEC is an apex body for ecological restoration in the State of Gujarat (www.gec.gov.in).

⁵ Conceptualised, compiled and edited the Draft Report “Environmental Action Programme for Gujarat: problems, causes and solutions” submitted to the Govt. of Gujarat, Govt. of India and the World Bank by the Gujarat Ecology Commission in 2003. pp 447.

⁶ A committee of secretaries, headed by the Chief Secretary, for managing the State Environment Action Programme (SEAP)

Integrated Land and Water Management (SOFILWM), Mehsana (Gujarat); (ii) Trustee, Institute for Resource Analysis and Policy (IRAP), Hyderabad; (iii) Member, BoG, for 'People in Centre' consulting, a private firm dedicated to the diffusion of technologies for the poor, primarily for habitat, Ahmedabad (Gujarat); also, Founding Trustee of Gujarat Ecology Society (GES), Vadodara, and Founder Member of the Indian Society for Ecological Economics (INSEE).

Professional experience in development

- Spearheaded the first market assessment⁷ for safe drinking water in India and organized a national Forum –efforts to promote a coordinated sector approach to sustainable solutions for human development;
- Conceptualised⁸, designed, implemented and managed the inception of a multi-input (livelihoods, health, education, environment) **area development programme in Bihar** – a new, and major, state level strategic intervention of AKF in India (2007 – 2011);
- Conceptualised, designed and managed the **Innovation Fund** (co-financed by the European Commission) for rural development, ensuring elements that build knowledge (2004 – 2008);
- Approach papers (i) converting field experiences into knowledge products; (ii) influencing practices and policies – scaling-up best practices in development; Set up task forces, through grantees, to study the “sustainability of village institutions” and “effectiveness of participatory irrigation management”; developed the knowledge management and outreach components of the **rural development** programme (2003 – 2007).

Experience in training and human resource development

- *mentoring a team of researchers on education policy reforms* at the Centre for Civil Society (2014-); *resource person for training* of high-calibre leaders, such as in LEAD India programme (2012);
- *mentored five Richard T. Clark Fellows* of the Merck Foundation over a three month placement (2013); *mentored two IDM Interns* (a programme of CIDA, Canada) over nine months (2009-10);
- *attended several short-term training courses*, such as on Performance Management Systems (PMS), Stress Management, Change Management, Results-based Management etc.

Past academic activities

- Adjunct Professor at the School of Planning, Centre for Environmental Planning and Technology (CEPT), Ahmedabad, for environmental planning courses (2002);
- Member of the Advisory Committee to develop the curricula for UG and PG studies in environment and natural resource management in Amity University, Delhi and Charotar Vidyamandal, Vallabh Vidyanagar, and recruitment of appropriate faculty; Member of the Research Advisory Committee for the Gujarat Institute of Desert Ecology (GUIDE), Bhuj (since 2008),
- Member of the selection committee for Dr. M.S. Patel Chair on Environmental Sciences at the MS University of Baroda (2002);
- Selection in-charge for the International Scholarship Programme (ISP) of the Aga Khan Foundation in India (2003-10).

⁷ “Community Safe Water Solutions”, in partnership with Accenture and TATA Strategic Management Group, to analyze and inform the sector on solutions for inclusion, sustainability and scale; Safe Water Network 2013: in press.

⁸ Conceptualised, compiled and edited the document “Development in Bihar: overview, appraisal and approach”, that forms the basis of a multi-year, multi-sector development programme in the State; AKDN 2008. pp 115.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Present

1. Chairman, BoG, Society for Integrated Land and Water Management (SOFILWM), Mehsana (Gujarat); earlier, Founder Member, with Prof Y K Alagh as its Chairman;
2. Trustee, Institute for Resource Analysis and Policy (IRAP), Hyderabad;
3. Member, Board of Governors, for 'People in Centre' consulting, a private firm dedicated to the diffusion of technologies for the poor, primarily for habitat, Ahmedabad (Gujarat);
4. Member, Research Advisory Committee, Gujarat Institute of Desert Ecology (GUIDE), Bhuj (Gujarat).

Past

1. Indian Society for Ecological Economics (INSEE) – founder member;
2. Gujarat Ecological Society (GES) – founder member;
3. Indian Association for Limnology and Oceanography (IALO);
4. National Institute of Ecology (NIE);
5. Societas Internationale de Limnologie (SIL).

PERSONAL INFORMATION

- Proficient in the use of common computer applications, with proper typing abilities;
- Native proficiency in English, Bangla and Hindi languages – both verbal and written;
- *Indian male*, born on 18th February, 1963 in Jalandhar (Punjab);
- *Nuclear family*, with spouse, a professional homoeopath, and two children.

Signature: Sd/-

Date & Place: Rajgir, Aug '16.

ANNEX I: KEY PUBLICATIONS

1. *Bandyopadhyay S. (2016) Sustainable Access to Treated Drinking Water in Rural India*. Chp 9, pp 203-227. In Kumar D, James A.J. and Kabir Y. (Eds). *Rural Water Systems for Multiple Uses and Livelihood Security*. Elsevier Inc. ISBN 978-0-12-804132-1; <http://dx.doi.org/10.1016/B978-0-12-804132-1.00009-3>
2. Dixit A.M., *Bandyopadhyay S.*, Kumar L. & Bedamatta S. (2015) *Economic valuation of landscape level wetland ecosystem and its services in Little Rann of Kachchh (LRK), Gujarat*. Final Report submitted to the Scientific and Technical Advisory Committee (STAG) for the TEEB India Initiative (TII), a collaborative programme of GIZ and Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India. CESC, 173 pp.
3. *Somnath Bandyopadhyay (2012). Integrating urban water management through green infrastructure*. In P. Bhattacharya and J K Garg (eds) *Environment: new challenges, new opportunities*. Macmillan Scientific Communications. Pages 159-169.
4. *S. Bandyopadhyay* and B.B. Barman (2011). *"Sustainable Urban Development – towards green infrastructure"*, lead article in the proceedings of the seminar organised by the B.E. College Alumni Association, New Delhi.
5. *Somnath Bandyopadhyay (2007). Environment: strategies for Gujarat*. Chapter 6 of the State Development Report, published by the Gujarat Institute for Development Research, on behalf of The Planning Commission, Govt. of India and with assistance from the UNDP.
6. *Somnath Bandyopadhyay, Apoorva Oza, David Nygaard (2007). Exclusion to Empowerment: women of the Siddi community in Gujarat (India)*. In Proceedings of the International Conference on What Works for the Poorest? Dec 2-5 2006, at the BRAC Centre, Dhaka (<http://www.chronicpoverty.org/events/archive/page/2>).
7. *Somnath Bandyopadhyay (2006). From relief and restoration to resilience: strategic development initiatives with disaster-affected communities in India*. In Proceedings of the International Conference on Adaptation to Climate Variability and Change, Jan 5-7 2006, New Delhi (<http://www.i-s-e-t.org/Proceedings-final.pdf>). Pages 125-127.
8. *Somnath Bandyopadhyay (2006). "Among footloose workers"*, article in the Crosscurrents section of the Down to Earth, published by the Centre for Science and Environment, New Delhi. 15 March 2006, p 50.
9. *Somnath Bandyopadhyay (2005) Environment management in India*. Epilogue of a book entitled "Terracotta Reader – a market approach to the environment", published by Academic Foundation and Centre for Civil Society, New Delhi, pp 371-386.
10. *Somnath Bandyopadhyay (2003). Review of a book entitled "Sustainable management of Wetlands: Biodiversity and Beyond" by Jyoti Parikh and Hemant Datye (eds.) 2002. New Delhi: Sage Publications*. In *Social Change (Journal of the Council for Social Development)*, 24 (1) March 2003, pp 165-168.
11. Gopal B, Shah M, Mukherjee R, Menon L, Lal C, Lavania G S, Joshi M, *Bandyopadhyay S* and Chatterjee K (1991). *"Studies on land-water interactions in the Yamuna river basin"* presented at International Conference on Land-Water Interactions, New Delhi, Dec 8-13, 1991.
12. *Somnath Bandyopadhyay* and Brij Gopal (1990). *"Ecosystem studies and management problems of a coastal lagoon, the Lake Chilka"*. In Gopal B and Asthana V (eds.) *"Aquatic sciences in India"*. Indian Association for Limnology and Oceanography. pp. 117-172.

ANNEX II: KEY PUBLIC APPEARANCE

- Chaired the LILA PRISM lecture by Vandana Shiva on “Food as continuity” at the India Habitat Centre in Aug 2014; report at <http://www.lilafoundation.in/2014/08/13/vandana-shiva-food-continuity/>; entire video of the proceeds at <https://www.youtube.com/watch?v=MzFG7rTvYwc>.
- Interviewed by Rajya Sabha TV on 14th October 2015 at Rajgir [details available at <http://www.nalandauniv.edu.in/news-and-events/updates/close-media-interaction-with-rajya-sabha-tv/>]
- Chaired the plenary session of a training programme in Delhi for high-level officials, including the Minister, from the Ministry of Agriculture in Ethiopia, during Dec 2014;
- Invited by the UNDP to a panel on “Technologies for Communities: Improving groundwater management in India”, as part of the Delhi Sustainable Development Summit (DSDS), the flagship annual event organized by TERI during 4-6 Feb 2015. The agenda: (http://dsds.teriin.org/2015/pdf/thematic/Agenda_Groundwater.pdf) and the proceeds: ([http://dsds.teriin.org/2015/pdf/Summit Bulletin day3.pdf](http://dsds.teriin.org/2015/pdf/Summit_Bulletin_day3.pdf));
- Participated in a policy consultation workshop jointly organized by the A N Sinha Institute of Social Science (ANSISS), and the International Food Policy Research Institute (IFPRI) on “Food Security Portal Partnership and Policy Dialogue in India Emerging Food Security Issues in Bihar” on 25 April, 2015 at Patna, sharing experience with nutrition work done through the Aga Khan Foundation.
- Keynote speaker and Chairman of a session at the National Workshop on Practices and Tools of Biodiversity Conservation in Protected Areas, organized by the T M Bhagalpur University on 24-25 Nov 2015. The title of my talk was “Valuation of Ecosystem Services as a tool for biodiversity conservation”, the abstract for which was published in their proceedings.
- Guest lecture on Ecological Economics to executive post-graduate diploma students of management at the Noida campus of IIM, Lucknow, on 27th February, 2016.
- Invited speaker for the National Seminar on Emerging Economics and Challenges to Sustainability towards Developing Nations, sponsored by ICSSR and organized by the University of Delhi during 29-30 March 2016. The title of the talk was Ecological Economics for Integrating Conservation into Development Planning, and the abstract was published.
- Invited lecture on Ideologies in Educational Disciplines at the UGC Refresher Course for college teachers, organized at CPDHE (UGC-HRDC), University of Delhi on 11th June 2016.
- Quoted twice as an expert in blogs of the Huffington Post:
http://www.huffingtonpost.in/soumya-sarkar-/kumbh-melas-start-running_b_10798788.html
http://www.huffingtonpost.in/soumya-sarkar-/the-great-indian-river-tr_b_10810102.html
- Blog, commissioned by the Centre for Science and Environment (CSE), New Delhi, entitled “Doubts dog toilet-building campaign”, at <http://www.downtoearth.org.in/author/somnath-bandopadhyay-81292>.
- Online dialogue on floods and disaster (<http://www.lilainteractions.in/dividing-waters/>).