

## **Shibdas Bandyopadhyay, Honorary Visiting Professor**

Professor Bandyopadhyay retired from the Indian Statistical Institute as a Professor in Higher Academic Grade. He obtained his B. Stat. and M. Stat. degrees from ISI and Ph. D. from University of Minnesota, USA.

His first faculty position was in University of California, Davis. He then came back to India and joined ISI.

He was a visiting faculty at Universities of Minnesota and Wisconsin. He was active in teaching and research with over 55 publications in refereed international and national journals, books and proceedings and sponsored project reports. He guided a scholar for ISI Ph. D.

Professor Bandyopadhyay served the institute as Head (Biometry Research Unit), Head (Computer Science Unit), Professor-in-charge (Applied Statistics, Surveys and Computing Division) and Head of Sampling and Official Statistics Unit at its opening.

At the national level, he served as a Member in NSSO Governing Council, in ICMR Task Force for National Malaria Eradication Programme, in DST Committee on Natural Resource Data Management System Projects, in the Technical Committee to Suggest Improvement of Statistical System in West Bengal, as a Special Invitee in the Technical Advisory Committee on Inflation Expectation Survey of Reserve Bank Of India, Special in the National Income Advisory Committee, as Special invitee in Working Groups of various NSS Rounds; as Chairman of NSS 72nd Round and Member of the National Statistical Commission, Government of India.

At the International level, served as Member-secretary, Board of Directors of the International Statistical Education Centre when it functioned under the auspices of UNESCO, Statistical Consultant of the Ford Foundation for rice research in Eastern India, Member of Research project team of Ford Foundation, Rockefeller Foundation and the Institute for Developing Economies, Japan, Member of ESCAP/SIAP Expert Group on Statistical Training and Education, Organiser at New Zealand Third in International Conference on Teaching Statistics (Session: International Statistical Institute on Training Junior Statistical Staff in Developing Countries).

### **Publications of Shibdas Bandyopadhyay**

56. (2011) 60 years of the International Statistical Education Centre. ISEC Diamond Jubilee Commemorative Volume, ISI, Kolkata, pp. 51-56.
55. (2010) Quantification of Ordinal Categorical Response. Invited paper presented at the 30<sup>th</sup> Anniversary Celebration of the Regional Occupational Health Centre (Eastern), ICMR, New Delhi.
54. (2009) (with D Sengupta et al.) Inflation expectation survey of Reserve Bank. RBI, Mumbai, pp. 1-52.
53. (2009) (with S Chakraborty et al.) Survey of present status of Model Steel Villages (MSVs) evaluation & monitoring. ISI, Kolkata, pp.1-67.
52. (2009) Concept and Measurement of Qualitative Data in Socio-Economic Research. Invited lecture delivered in the Workshop on Basics of Data Collection and Data Processing for Social Science Research, March 30 – 31, 2009 conducted by CSDRR & Rabindra Bharati University. [Was to be published in the Workshop Monograph.
51. (2009) (with N Bhattacharyya et al.) Study on inputs for the fishing sector in West Bengal. SSESS & BAEandS, Govt. of West Bengal collaborative project, pp. 40 + 18 + ii.
50. (2009) (with A Kundu et al.) Periodic labour force survey, MoS&PI, Govt. of India, pp. 67 + vi,

49. (2008) Normal probability plot. Invited paper presented in the International Conference on Present Practices and Future Trends in Quality and Reliability, January 22-25, 2008, at ISI, Kolkata.
48. (2006) (with N Bhattacharayya et al.) Report of the Technical Committee for coordination and Improvement of the Statistical System : Part I: Agriculture, Industry, Education & Health. Govt. of West Bengal, Development & Planning Department, pp. 110 + iii.
47. (2006) (with M Ghosh et al.) Biodiversity of Sundarbans Mangroves : A quantitative investigation of Quadrature Size, ISI, Kolkata, pp.12.
46. (2005) (with R S Chowdhury and K Basu) Small area estimation using GIS. Sarvekshana Issue 89, Vol. XXVI No.2, pp. 24 – 29.
45. (2005) (with S Bandyopadhyay) Exact Density of W Classification Statistics Based on Unmatched Training Sample from Correlated Population. Calcutta Statistical Association Bulletin, Vol. 56 (special volume), pp.305-320.
44. (2003) (with S Bandyopadhyay) Choosing a better training sample for classifying an individual into one of two correlated normal populations. Calcutta Statistical Association Bulletin, Vol. 54, pp.167-179.
43. (1999) (with J K Ghosh et al.) Strengthening local government in Madhya Pradesh. ISI-PWI project funded by the Asian Development Bank.
42. (1993) (with A K Adhikari) Sampling from imperfect frames with unknown amount of duplication. Survey Methodology, Statistics Canada, Vol.19, pp.193-197.
41. (1993) Discrete response analysis in population control – An application of the branching processes. Statistical Perspective in Health Care, B L Verma, G D Sukla and R N Srivastava Ed., pp. 109-114. CBS, Delhi.
40. (1992) On some problems of imperfect frames in large scale sample surveys. Problem of Large Scale Sample Surveys in India, A. Dewanji and A K Adhikari ED., pp. 23-29. ISI, Calcutta.
39. (1992) (with A K Adhikari) Evaluation of Fish Farmer Development Agency schemes in West Bengal, 1990, ISI, Calcutta.

Part I : Summary and Recommendations, pp. 17 + iii,

Part II : tables with notes+ viii.

38. (1991) Training resource book for agro-ecosystem mapping. Compiled by C Lightfoot et al., IRRI, Phillippines, pp. 55+iii.
37. (1991) Some issues relating to training junior staff in developing countries. Proceedings of the Third International Conference on Teaching Statistics, Vol. 2, pp. 503-505, D Vere-Jones Ed., Int. Statist. Inst., the Netherlands.
36. (1991) Reprinted in Training Junior Statistical Staff in Developing Countries - The Use of Government Statistical Offices as a Resource in Teaching of Statistics, pp. 11-15, Int. Statist. Inst., the Netherlands.
35. (1990) Forgot the sampling scheme at the estimation stage? Survey Methodology, Statistics Canada, Vol.16, pp. 279-282.
34. (1990) (with S K Mukhopadhyay et al.) Constraints to technological progress in rice cultivation : An experiment-survey research in West Bengal. Sponsored by the Ford Foundation, , U of Kalyani, Nadia, pp.74.
33. (1990) ( with S K Mukhopadhyay and B Ghosh) Rice-based farming systems research – An experiment at Kalyani, U of Kalyani, Nadia, pp. 107 + iii.
32. (1990) ( with S K Mukhopadhyay and B Ghosh) Technological changes and labour use in rice agriculture : Analysis of village level data in West Bengal, India. Final workshop on Differential Impact on Modern Rice Technology Across Production Environments, IRRI, Phillippines, sponsored by the Rockefeller Foundation.
31. (1989) Analysis of categorical data. Essential Applied Statistics for Environmentalists, Ch. 7, pp. 7.1-7.29, ISI, Calcutta.
30. (1988) (with B N Mukherjee) Age and ethnic variation of Hb level in 14 endogamous groups of Rajasthan, Punjab and Himachal Pradesh, India. Int. J. Anthropol., Vol. 3, pp. 207-282.
29. (1987) In service statistical training in educational institutions. Invited paper presented at the ESCAP/SIAP expert group meeting on Statistical Training and Education, Document No. STAT/EGMSTE/3, 18-22 May, Bangkok.

28. (1987) (with A K Adhikari) Evaluation of Fish Farmer Development Agency schemes – A case study, ISI, Calcutta, pp.31.
27. (1986) (with A K Adhikari) A techno-socio-economic survey of fisherman in West Bengal, ISI, Calcutta, pp.317.
26. (1986) (with D Banerjee, G Basak, R G Dani and D Set) Genetic studies on cotton seed oil. Data analysis in the life sciences, T Krishnan Ed., pp. 55-80, ISI, Calcutta.
25. (1986) Selection of predictors for linear regression. Invited paper presented in the Statistics Section at the 73<sup>rd</sup> Session of the Indian Science Congress Association, 3-8 January 1986, New Delhi.
24. (1985) Use of hospital data for population health policy making. Principles and Practices of Statistics in Medicine, Ch. 28, pp. 218-223, Himalaya Publishing House, Bombay.
23. (1985) (with J Roy and S Raja Rao) Design of statistical Surveys for planning of health services in a metropolitan area. Principles and Practices of Statistics in Medicine, Ch. 27, pp. 211-217, Himalaya Publishing House, Bombay.
22. (1985) (with K Pakrashi, S Sil, J Banerjee and A R Banerjee) Motor Development of Bengali infants by nutritional status in the first year of life. Anthropol. Kozl., Vol. 29, pp. 73-83.
21. (1984) (with S K Mukhopadhyay and N Fujita) Pattern of Growth Mechanism of 21. South Asian Agriculture – A case study of India. Joint Research Project Ser. 45, Institute of Developing Economies, Tokyo, pp. 108 + v.
20. (1984) Calcutta Housing. Proceedings of Seminar on Calcutta Beyond 2000 AD. Indian Science News Association, Calcutta, pp. S14-S16.
19. (1984) (with R Das) A statistical model-based comparative study of interrelationship between G-6-PD and Hbs in a Mahar population. Proceedings of ISI golden jubilee conference on Human Genetics and Adaptation, Vol. 1, Human Genetics, K C Malhotra and A Basu Ed., pp. 334-343, ISI, Calcutta.
18. (1984) (with B N Mukherjee, K C Malhotra, R Das and S L Kate) Spatial and social variation in sickle-cell trait, G-6-PD deficiency and malaria in north Maharashtra : A preliminary report. . Proceedings of ISI golden jubilee conference on Human

Genetics and Adaptation, Vol. 1, Human Genetics, K C Malohatra and A Basu Ed., pp. 325-333, ISI, Calcutta.

17. (1984) (with J Roy et al) A survey of foreign tourists in India, ISI, Calcutta, pp. 227 + xix.
16. (1983) Admissibility of likelihood ratio rules in covariate classification using dependent samples. *Austrl. J. Statist.*, Vol. 25, pp. 482-486.
15. (1982) Covariate classification using dependent samples. *Austrl. J. Statist.*, Vol. 24, pp. 309-317.
14. (1982) (with B N Mukherjee, K C Malhotra, K Pakrashi and S L Kate) Effect of Hb and G--PD deficiency on height, weight and skinfolds : a study of Indian population. *Anthrop. Anzeiger*, Stuttgart, Vol. 40, pp. 233-243.
13. (1981) (with K Pakrashi, A R Banerjee and J Banerjee) Growth of Bengali infants by feeding habit from birth to twelve months. *Anthrop. Kozl.*, Budapest, Vol. 25, pp. 61-80.
12. (1980) (with J Roy) Enumeration errors – A case study. *Proceedings of Symposium on Advances in Methods in Data Collection [with discussions]*, A Chaudhury Ed., ISI, Calcutta.
11. (1980) (with J Roy et al.) Calcutta 1976 – A socio-economic survey of households with municipal addresses, ISI, Calcutta, pp. 258 +ix.
10. (1980) Improved ratio and product estimators. *Sankhya. Ser. C*, Vol. 42, pp. 45-49.
9. (1979) Two population classification in Gaussian process. *J Statist. Planning and Inference.*, Vol. 3, pp. 225-233.
8. (1978) Classification, Distribution and admissibility in auto – regressive process. *Austrl. J. Statist.*, Vol. 20, pp. 229-239.
7. (1978) (with S Nandi and S K Mukhopadhyay) Economic determinants of fertility – Analysis based upon Census data for West Bengal. *Demo. India*, Vol. 7, pp. 105-117.
6. (1978) On estimation of the conditional probability of correct classification. *CSA Bulletin*, Vol. 27, pp. 49-57.

5. (1977) (with J Roy et al.) Calcutta Frame Survey. 26 Bound volumes for reference use in the Computer Science Unit Library, ISI, Calcutta.
4. (1977) (with A K Chattopadhyay and S C Kundu) On estimation of population total. . Sankhya. Ser. C, Vol. 39, pp. 28-42.
3. (1977) Probability inequalities involving estimates of probabilities of correct classification using dependent samples. . Sankhya. Ser. B, Vol. 39, pp. 145-150.
2. (1977) (with S Das Gupta) Asymptotic expansions of the distributions of some classification statistics and the probabilities of misclassification when the training samples are dependent. . Sankhya. Ser. B, Vol. 39, pp. 12-25.
1. (1971) Pebble orientation in relation to cross-stratification – A statistical study. J. Sed. Petro., Vol. 41, pp. 585-587.