

Madan M. Dey

Education

Bangladesh Agricultural University, Mymensingh, Bangladesh
Agricultural Economics BSc (Honors) 1981

University of the Philippines at Los Banos
Agricultural Economics PhD 1988



International Rice Research Institute, The Philippines
(in collaboration with Yale University, USA)
Post Doctoral Fellowship, 1991-1993

Employment

2007-present Professor, Department of Aquaculture and Fisheries, UAPB
2007-present Senior Research Fellow, The WorldFish Center
2004-2007 Regional Director, The WorldFish Center
2001-2007 Senior Research Scientist/Economist, The WorldFish Center
1997-2001 Research Scientist/Economist, The WorldFish Center
1994-1997 Project Coordinator/Economist, the WorldFish Center
1993-1994 Consultant, Int. Food Policy Research Institute/Int. Rice Research Institute
1989-1993 Senior Scientific Officer, Bangladesh Agricultural Research Council
1983-1989 Scientific Officer, Bangladesh Rice Research Institute
1990-1993 Adjunct Faculty, BSMR Agricultural University, Bangladesh
1989-1993 Adjunct Instructor (Int. diploma in Economic Theory and Quantitative techniques, Bangladesh Institute of Development Studies)

Scientific & Professional Organizations

International Association of Aquaculture Economics and Management (Elected Vice-President, 2010)
International Institute of Fisheries Economics and Trade
North American Association of Fisheries Economists
International Agricultural Economics Association
World Aquaculture Society

Program Capsules (Research, Extension, Teaching)

Research: Aquaculture economics and marketing, food sector modeling, trade policy analysis, impact assessment, and economics of agricultural technology development and dissemination.

Teaching: Aquaculture economics, marketing, international trade, and program evaluation and survey methods.

Extension: Dissemination of agricultural and aquaculture technologies, aquaculture marketing.

Five Most Significant Professional Contributions

1. Developed market models for Catfish and Trout industries in the USA.
2. Developed a multi-market fish sector model for Asia, the first of its kind in the fisheries and aquaculture sector. Various Asian countries and Australia are using this model (Asia Fish Model) to analyze the impact of different technologies and policy options.
3. Developed frameworks for assessing the impact of different types of aquatic resources research (production technologies, natural resource management research, and policy and information research) at different stages of the research planning-monitoring and impact pathways (both ex ante and ex post).
4. Economics research that led to the development and dissemination of genetically improved tilapia and carps in Asia.
5. Convinced fisheries research managers in developing Asian countries to institutionalize multidisciplinary approach in various aquaculture and fisheries research.

Publications

Journal Articles

Dey, M. M., F.J. Paraguas, P. Kambewa, and D. Pems. 2010. The impact of integrated aquaculture-agriculture on small-scale farms in southern Malawi. *Agricultural Economics*, 41(1): 67-79.

Dey, M. M, F. Alam and M. Bose. 2010. Demand for aquaculture development: perspectives from Bangladesh for improved planning. *Reviews in Aquaculture*, 2(1):1-17.

- Dey, M.M.,** P. Kumar, F.J. Paraguas, O. Chen, A. Khan, and N. Srichantuk. 2010. Performance and nature of genetically improved carp in Asian countries. Aquaculture Economics and Management, 14(1): 1-27.
- Hossain, I. M., S. Chamhuri, M. B. Mokhtar, **M. M. Dey**, and A. H. Jaafar. 2010. Impact of community based fish culture on seasonal floodplain *Beel* - A comparative study. Journal of Scientific Research (ISI), 2(2) (in press).
- Hossain, I. M., S. Chamhuri, M. B. Mokhtar, **M. M. Dey**, and A. H. Jaafar. Socio-economic condition of fishermen in seasonal floodplain beels in Rajshahi district, Bangladesh. Research Journal of Social Sciences, (accepted).
- Singh, K., **M. M. Dey**, A. G. Rabbani, P. O. Sudhakaran and G.Thapa. 2009. Technical efficiency of freshwater aquaculture and its determinants in Tripura, India. Agricultural Economics Research Review, 22 (2): 185-195.
- Dey M. M.** and Y T Garcia. 2008. Demand for fish in Asia: a cross country analysis. Australian Journal of Agricultural and Resource Economics, 52(3):321-338.
- Gordon, D., T. Bjorndal, **M.M. Dey** and R.K. Talukder. 2008. Production characteristics of shrimp farming in Bangladesh: an index approach. Marine Resources Economics, 23(4): 411-424.
- Briones, R., **M. M. Dey**, M. Ahmed, M. Prein, and I. Stobutzki. 2008 “Priority Setting for Research on Aquatic Resources: Applying Modified Economic Surplus Analysis to Natural Resource Systems.” Agricultural Economics, 39(2):231-243.
- Kam, S.P., M. Prein, and **M.M. Dey**. 2007. Delineating recommendation domains for small-scale freshwater aquaculture: deploying GIS for decision support. GIS/Spatial Analyses in Fishery and Aquatic Sciences, Vol. 3: 431-444. Fishery-Aquatic GIS Research Group, Saitama, Japan. (ISBN: 4-9902377-1-4)
- Bose M. L. and M M Dey. 2007. Food and nutritional security in Bangladesh: going beyond carbohydrate counts. Agricultural Economic Research Review, 20(2): 203-225
- Kumar P., Mruthyunjaya and **M. M. Dey**. 2007. Long-term changes in food basket and

nutrition in India, Economic and Political Weekly, 42(385): 3567-3572.

Chowdhury, M. A. K., D. P. Bureau, M. L. Bose, and **M. M Dey**. 2007. Relevance of a rapid appraisal approach to identify locally available feed ingredients to small scale tilapia (*Oreochromis niloticus* L.) aquaculture. Aquaculture Economics and Management 11(2):151-169.

Paraguas, F.J., **M.M. Dey** and A. A. Kamil 2006. Spatially linear approximate to almost ideal demand system. Advances and Applications in Statistics 6(3): 361-375.

Kumar, P and **M. M. Dey**. 2006. Nutritional intake and dynamics of undernourishment of farm households in rural India. Indian Development Review 4(2):269-284.

Kumar, P., **M. M. Dey** and F. Paraguas. 2006. Fish supply projections by production environments and species types in India. . Agricultural Economic Research Review 19 (2): 327-351.

Paraguas, F.J. and **M.M. Dey** 2006. Aquaculture productivity convergence in India: a spatial econometric perspective. Agricultural Economic Research Review 19 (Conference No): 121-134.

Dey, M.M., P. Kambewa, M. Prein, D. Jamu, F.J. Paraguas, D.E. Pemsil, and R.M. Briones 2006. Impact of Development and Dissemination of Integrated Aquaculture-Agriculture (IAA) Technologies in Malawi. NAGA, WorldFish Center Quarterly, vol. 29 (1&2): 28-35.

Dey, M. M. and M Prein. 2006 Community based fish culture in seasonal floodplains. NAGA, WorldFish Center Quarterly, vol. 29 (1&2): 21-27.

Sugunan V. V., M Prein and **M. M. Dey**. 2006. Integrating agriculture, fisheries and ecosystem Conservation: win-win solutions. International Journal of Ecology and environmental sciences 32(1):3-14.

- Dugan Patrick, **Madan M. Dey** and V.V. Sugunan. 2006. Fisheries and water productivity in tropical river basins: Enhancing food security and livelihoods by managing water for fish. Agricultural Water Management, Volume 80 (Issues,1-3): 262-275.
- Briones, R., **M. M. Dey**, I. Stobutzki, and M. Prein. 2005. Ex Ante Impact Assessment for Research on Natural Resources Management: Methods and Applications to Aquatic Resource Systems. Research Evaluation, vol. 14(3): 217-227.
- Kumar, P., **M. M. Dey**, and F. J. Paraguas 2005. Demand for fish by species in India: three-stage budgeting framework. Agricultural Economics Research Review, vol. 18 (July-Dec): 167-186.
- Dey, M. M.** and M. Ahmed. 2005. Aquaculture-food and livelihoods for the poor in Asia: a brief overview of the issues. Aquaculture Economics and Management, vol 9 (no.1&2):1-10.
- Dey M.M.**, R. Briones and M Ahmed. 2005. Projecting supply, demand and Trade for specific fish types in Asia. Aquaculture Economics and Management, vol 9 (no.1&2):113-140.
- Dey, M.M.**, M. A. Rab, F.J. Paraguas, S. Piumsombun, R. Bhatta, Md. F. Alam, S. Koeshendrayana and M. Ahmed. 2005. Status and economics of freshwater fish farming in Asia. Aquaculture Economics and Management, vol 9 (no.1&2):11-38.
- Dey, M.M.**, M.A. Rab, F.J. Paraguas, S. Piumsumbun, R. Bhatta, M. F. Alam and M. Ahmed. 2005. Fish consumption and food security: a disaggregated analysis by types of fish and classes of consumers in selected Asian Countries. Aquaculture Economics and Management, vol 9 (no. 1&2):89-112.
- Dey M. M.**, M A Rab, A Kumar and A Nisapa, and M Ahmed. 2005. Food safety standard and regulatory measures: implications for selected fish exporting Asian countries. Aquaculture Economics and Management, vol 9 (no.1&2): 217-236.

- Dey, M.M.**, F.J. Paraguas, X. Yuan, N. Srichantuk, R. Bhatta and L.T.C. Dung. 2005. Technical efficiency of fish farming under polyculture system in freshwater pond in Asia: a cross-country comparison. Aquaculture Economics and Management, vol 9 (no. 1&2): 39-64.
- Dey, M. M.** and M Prein. 2005. Increased income from seasonally flooded rice fields through community-based fish culture in Bangladesh and Vietnam. Plant Production Science, vol 8(3):349-353.
- Dey, M.M.**, M Prein, A.B.M.M. Haque, S. Sultana, N. C. Dan and N. V. Hao. 2005. Economic feasibility of community-based fish culture in flooded rice fields in Bangladesh and Vietnam. Aquaculture Economics and Management, vol 9 (no. 1&2):65-88.
- Garcia, Y, **M.M. Dey** and S. Navarez. 2005. Analysis of fish demand in the Philippines. Aquaculture Economics and Management, vol 9 (no. 1&2):141-168.
- Piumsombun, S., Rab, M.A., **M. M.Dey**, and N. Srichantuk. 2005. Farming practices and economics of aquaculture in Thailand. Aquaculture Economics and Management, vol 9 (no. 1&2):265-287.
- Katiha,P., J.K. Jana, N.G. K. Pillai, C. Chakraborty and **M M Dey**. 2005. Aquaculture in India. past trend, present status and future prospects. Aquaculture Economics and Management, vol 9 (no. 1&2):237-264.
- Kumar, P. & M. M. Dey. 2004. A Study on modeling of household demand for fish in India. Indian Journal of Agricultural Economics, Vol 59 (no.3): 465-475.
- Briones R., **M. M. Dey** & M Ahmed. 2004. The future for fish in the food and livelihoods of the poor in Asia. NAGA, WorldFish Center Quarterly, vol. 27 (no. 3&4): 48-50.
- Briones, R., **M. M. Dey**, M. Ahmed, I. Stobutzki , M. Prein, & B. O. Acosta. 2004. Impact pathway analysis for research planning: the case of aquatic research in

the WorldFish Center. NAGA, WorldFish Center Quarterly, vol. 27 (no. 3&4): 51-55.

Hussain, M. G., M. S. Islam, M. A. Hossain, M. I. Wahid, A. H. M. Kohinoor, **M. M Dey**, & M. A. Mazid. 2002. Stock Improvement of Silver Barb (*Barbodes gonionotus bleeker*) Through Several Generations of Genetic Selection. Aquaculture 204 (2002): 469-480.

Li, S., Li, C., **M. M. Dey**, F. Galalac & R.A. Dunham. 2002. Cold Tolerance of Three Strains of Nile tilapia, *Oreochromis niloticus*, in China. Aquaculture 213(2002)123-129

Li S., G. Lu & **M M Dey** 2002 Polymorphism of the ND5/6 gene in mtDNA of strains of Nile tilapia, *Oreochromis niloticus*. Asian Fisheries Science 15:265-270

Li S.F, J. L. Zhao, **M M Dey** and R Dunham 2001 Isozyme Variation in Nile Tilapia *Oreochromis niloticus* in China. Asian Fisheries Science 14:411-416

Dey, M.M. 2000. "The Impact of Genetically Improved Farmed Nile Tilapia in Asia". Aquaculture Economics and Management, 4(1&2): 107-124.

Dey, M. M. 2000. "Analysis of Demand for Fish in Bangladesh". Aquaculture Economics and Management, 4(1&2): 63-82.

Dey, M.M. & M.V. Gupta, 2000. "Socioeconomic Aspects of Disseminating Genetically Improved Nile Tilapia (*Oreochromis Niloticus*) in Asia: Introduction". Aquaculture Economics and Management, 4(1&2): 5-12.

Dey, M.M., F.J. Paraguas, G. Bimbao & P.B. Regaspi. 2000. "Technical Efficiency of Growout Pond Operations in the Philippines". Aquaculture Economics and Management, 4(1&2): 31-46.

- Dey, M. M.**, G. B. Bimbao, L. Yong, P. Regaspi, A. H. M. Kohinoor, N. Pongthana & F.J. Paraguas. 2000. "Current Status of Production and Consumption of Tilapia in Selected Asian Countries". Aquaculture Economics and Management, 4 (1&2):13-30.
- Dey, M. M.**, Eknath, A. E., Li Sifa, M.G. Hussain, T. M. Tran, M. Pongthana, V. H. Nguyen & F.J. Paraguas. 2000. "Performance and Nature of Genetically Improved Farmed Tilapia: a Bioeconomic Analysis" . Aquaculture Economics and Management, 4(1&2): 83-106.
- Bimbao, G., F.J. Paraguas, **M. M. Dey** & A. E. Ekanath. 2000. "Socioeconomics and Production Efficiency of Tilapia Hatchery Operations in the Philippines". Aquaculture Economics and Management, 4(1&2): 47-62.
- Hussain, M.G., A.H.M, Kohinoor, M. S. Islam, A. Hossain, **M. M. Dey** & M. A. Mazid. 2000. "Growth and Production Performance of GIFTstrain of Nile Tilapia, *Oreochromis niloticus* L., in Ponds and Cages under Different Farming Conditions in Bangladesh". Journal of Aquaculture in the Tropics, 15(3): 273-280.
- William, M.J., J.D. Bell, M.V. Gupta, **M.M. Dey**, M. Ahmed, M. Prein, S.E. Child, P.R. Gardiner, R. Brummett and D. Jamu. 2000. "Responsible Aquaculture Can Aid Food Problems". Correspondence, Nature 406:17-17, p673.
- Li Sifa, Li Chenhong, **Madan Mohan Dey** & Rex Dunham. 1999. "Seinability of four Strains of Nile Tilapia, *Oreochromis niloticus*, in Chinese Ponds". Aquaculture, 174 (1999): 223-227.
- Deb, U.K., Gopal Krishna Bose & **Madan Mohan Dey**. 1999. " Growth and Variability in Sugarcane Production in Bangladesh". The Asian Economic Review, 41(1): 152-165.
- Ahmed, M., **M. M. Dey**, & M.J. Williams. 1999. "Assessment of the Impact of Aquatic Resources Research by ICLARM: scope and methodologies". Naga, ICLARM Quarterly 22(2), 4-10.

Dey, Madan Mohan & G. W. Norton. 1992. "Rice Research Priorities in Bangladesh: A Quantitative Analysis". Bangladesh Journal of Agricultural Economics, 15 (2): 1-17.

Elahi, Q.E., **Madan Mohan Dey** & M.A. Hakim. 1992. "Removing Constraints on Small Farmers Development in Bangladesh. An Action Programme for the Fourth Five Year Plan Period". Farm Economy, 8 (Conference 1991): 83-96.

Deb, U.K., M.A.S. Mandal & **Madan Mohan Dey.** 1991. "Variability in Agricultural Production in Bangladesh". Bangladesh Journal of Agricultural Economics 14 (2): 27-50.

Deb, U.K., **Madan Mohan Dey**, & M.A.S. Mandal. 1991. "Changes in the Crop Production and their sources in Bangladesh Agriculture". Bangladesh Journal of Agricultural Economics 14 (1): 1-18.

Dey, Madan Mohan & Uttam K. Deb. 1990. "The Economics of Investment in Agricultural Research in Bangladesh." Bangladesh Journal of Agricultural Economics 13 (1&2): 1-23.

Dey, Madan Mohan, 1990. "Rice Price Stabilization Policy in Bangladesh". Bangladesh Journal of Political Economy 10(3): 199-211.

Book chapters and Reviewed Proceedings papers

Briones, R.M., **M. M. Dey**, and M. Ahmed. 2010. Globalization and Fisheries: Welfare Implication of Export Trade in Asia, pp 127-140. *In* C. Ringler, A.K. Biswas, and S. Cline (eds.) Global Change: Impact on Water and Food Security, Springer, Secaucus, USA, 202pp.

Chan, Y., J. Boukachour, C.C. Chiang, **M.M. Dey**, C.H. Fredouet, H.P. Lo, F. Moeeni, A.K. Toh. (In press). Cyber transportation logistics: architecting a global value-chain for services. *In* Luo, Zongwei, (ed.) Service Science and Logistics Informatics: Innovative Perspective, IGI Global, Hershey, USA, 334pp.

- Dey, M.M.,** R.M. Briones, Y.T. Garcia, A. Nissapa, U.P. Rodriguez, R.K. Talukder, A. Senaratne, I.H. Omar, S. Koeshendrajana, N.T. Khiem, T.S. Yew, M. Weimin, D.S. Jayakody, P. Kumar, R. Bhatta, M.S. Haque, M.A. Rab, O.L. Chen, L. Luping and F.J. Paraguas. 2008. Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit Poorer Households in Asia. WorldFish Center Studies and Reviews No. 1823. The WorldFish Center, Penang, Malaysia. 180 pp.
- Dey, M. M.,** M.L. Bose, and M. F. 2008. Recommendation Domains for Pond Aquaculture. Country Case Study: Development and Status of Freshwater Aquaculture in Bangladesh. WorldFish Center Studies and Reviews No. 1872. The WorldFish Center, Penang, Malaysia. 73 pp.
- Dey, M. M.** 2008. Changing demand and supply structure of fish in Asia: past trends and future projection, pp 51-74. *In* R. M. Briones and A.G. Garcia, (eds.) Poverty Reduction Through Sustainable Fisheries: Emerging Policy and Governance Issues in Southeast Asia. Institute of Southeast Asian Studies, Singapore. 276 pp.
- Pomeroy, R., Y. T. Garcia, **M. M. Dey**, and L. R. Garces. 2008. Regional economic integration of the fisheries sector in ASEAN countries, pp 75-106. *In* R. M. Briones and A.G. Garcia, (eds.) Poverty Reduction Through Sustainable Fisheries: Emerging Policy and Governance Issues in Southeast Asia. Institute of Southeast Asian Studies, Singapore. 276 pp.
- Dey, M.M.,** P. Kambewa, M. Prein, D. Jamu , F.J. Paraguas, D.E. Pemsil, and R.M. Briones. 2007. Impact of the Development and Dissemination of Integrated Aquaculture-Agriculture (IAA) technologies in Malawi, p 118-146. *In* H. Waibel and D. Zilberman (eds), International Research on Natural Resource Management: Advances in Impact Assessment, 320pp. FAO and CAB International.
- Ahmed, M., **M.M. Dey**, and Y.T. Garcia. 2007. The role of species and systems in the development and growth of aquaculture in Asia: needs and prospects, pp 85-102. *In* P.S. Leung, C.-S. Lee, and P. O'Bryen, (eds.). Species and System Selection for Sustainable Aquaculture. Blackwell Publishing, Ames, Iowa, USA,

506 pp.

Dey, M. M., N. Sheriff and T Bjorndal. 2007. Utvikling av akvakultur i Asia: Noverande status, økonomi og framtidsutsikter (Development of Aquaculture in Asia: Current Status, Economics and Future Prospects), 151-172. In B. Aarset and G. Rusten (eds.) Havbruk: Akvakultur paa norsk (Modern Norwegian Aquaculture). Fagbokforlaget, 220 pp.

Nelson K.C., Z Basiao, A. M. Cooper, **M. M. Dey**, D. Fonticiella, M. L Hernandez, S. Kunawasen, W. Leelapatra, S Li, B.D. Ratner and M I Toledo. 2007. Problem formulation and option assessment: science guided deliberation in environmental risk assessment of transgenic fish, pp. 29-60. In A. R. Kapuscinski, K. R. Hayes, S Li, and G. Dana (eds.) Environmental Risk Assessment of Genetically Modified Organisms, Vol. 3, Methodologies for Transgenic Fish. CAB International, 304 pp.

Dey, M. M. and Y. T. Garcia. 2007. Demand for fish in Asia: a cross country analysis, pp 8-13. In Johnston B. (ed.). Economics and Market Analysis of the Live Reef-Fish Trade in the Asia-Pacific Region. ACIAR Working paper No. 63. Canberra. 173 pp.

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Viswanathan, K. K., M. Ahmed., P. Thompson, P. Sultana, **M. M. Dey**, and M Torell. 2006. Aquatic Resources: collective management patters and governance for the world's fish wealth, pp 209-216. In M. M. Cernea and A. H. Kassam (eds.) Researching the Culture in Agri-Culture: Social Research for International Development. CABI Publishing. 497 pp.

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- Piumsombun, S., **M M Dey**, & F J Paraguas 2003. Analysis of Demand for Fish consumed at home in Thailand. *In*, Fisheries in the Global Economy. Proceedings of the Biennial Conference of the International Institute on Fisheries Economics and Trade (IIFET) 2002.
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- Prein M & **M M Dey** 2001. "Rice and Fish Culture in Seasonally Flooded Ecosystems", p. 207 to 214. *In* IIRI, IDRC, FAO, NACA & ICLARM. Utilizing

Different Aquatic Resources for Livelihoods in Asia: A Resource Book.
International Institute of Rural Reconstruction, Philippines. 416p.

Dey, M. M. & M. Prein. 2000. "Case 3: Fish in Deepwater Rice lands", p.19-20. *In* PRGA Program (eds.) Equity, Well-being, and Ecosystem Health; Participatory Research for Natural Resources Management. CGIAR Program on Participatory Research and Gender analysis, CIAT, Cali, Colombia. 62p.

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Eknath, A.E., **M.M. Dey**, M. Rye, B. Gjerde, T.A. Abella, R.C. Sevilleja, M.M. Tayamen, R. A. Reyes, & H.B. Bentsen. 1998. "Selective Breeding of Nile Tilapia for Asia". Proceedings of the 6th World Congress on Genetics Applied to Livestock Production, 11-16 January 1998, Armidale, Australia, **27**, 89-96.

Dey, Madan Mohan & Gaspar B. Bimbao. 1998. "Policy Imperatives for Sustainable Aquaculture Development in Asia: Lessons from Bangladesh, the Philippines and Thailand", pp. 331-350. *In* Network of Aquaculture Centers in Asia-Pacific (NACA). Proceedings of the Regional Study and Workshop on Aquaculture Sustainability and the Environment, 6-12 October 1995, Beijing, Asian Development Bank and NACA, Bangkok,

Dey, Madan Mohan. 1997. "Returns to Investment in Crop Research in Bangladesh: Synthesis of *Ex Post* and *Ex Ante* Analysis." pp. 60-73, *In* M.C.S. Bantilan & P.K. Joshi (eds.). Integrating Research and Evaluation Efforts. Proceedings of the Workshop on Integration of Research Evaluation Effort of ICRISAT and NARS. 14-16 December 1994, ICRISAT, Patancheru, Andhra Pradesh, India

Pullin, R.S.V., M. L. Palomares, C.V. Casal, **M.M. Dey** & D. Pauly. 1997. "Environmental Impacts of Tilapias", pp. 554-570. *In* Kevin Fitzsimmons (ed.). Proceedings of the Fourth International Symposium on Tilapia in Aquaculture, on 19-12 November 1997 in Orlando, Florida, USA.

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Dey, M. M., Kehar Singh and Carole Engle. 2009. Will a decrease in pond bank prices increase the catfish farmers' income in U.S.? An empirical analysis. The Catfish Journal, January 2009.

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Gupta, M.V., **M.M. Dey**, R. Dunham & G. Bimbao. 1997. Proceedings of the Collaborative Research and Training on Genetic Improvement of Carp Species in Asia, 26-29 July 1997, Central Institute of Freshwater Aquaculture, Bhubaneswar, India. ICLARM Work. Doc.1, Manila, Philippines.

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Grants (Last Five Years)

Dey, M. M. "Using National Retail Databases to Determine Market Trends for Southern Aquaculture Products" project funded by the Southern Aquaculture Research Center (SRAC) of the US Department of Agriculture, USD 250,000.

Dey, M. and C. Engle. "Pond-bank prices of catfish and processor sales volumes". Funded by the Arkansas Catfish Promotion Board. USD9, 500.

Dey, M. M. jointly with Mark Prein. Two successful project proposals on 'Determination of High Potential Aquaculture Development Areas and Impact in Africa and Asia' (USD 1.126 mil and USD 0.207 mil from the Govt of Germany -BMZ/GTZ- for a three years period-2005 to 2008).

Dey M. M jointly with A Ponniah. Canadian International Development Agency (CIDA) funded project on "Flexible, low inputs, Production Strategies& feeds for inland aquaculture" (2005-2007, USD 150,000)

Dey M. M. jointly with I Stobuski. Australian Center for International; Agricultural Research (ACIAR) funded project on "Fisheries rehabilitation in tsunami-affected Indonesia: community needs assessment and resource status" (2005-2006, USD 150,000)

Dey M. M. jointly with M Prein. Consultative Group of International Agricultural Research (CGIAR) Challenge Program (on Water and Food) project on

“Community Based Fish Culture in Irrigation Systems and seasonal Floodplains (2004-2008, USD 1.5 mil).

Dey M. M. jointly with Raul Ponzoni and A Ponniah. Asian Development Bank (ADB) funded project on “Achieving Greater Food security and Improved Carps Strains to Fish Framers” (2004-2006, USD 0.95 million).

Dey M. M. CGIAR funded project on ‘Development and Dissemination of Integrated Aquaculture-Agriculture Technologies in Malawi (2003-2004, USD 30,000)

Dey M. M jointly with D Little. The government of U.K. (DFID) funded project on “Impact of Production and Marketing of Freshwater Aquatic Products on Rural Livelihoods (2003-2005, GBP 174613).

Dey M. M. jointly with M Ahmed. ADB funded project on “Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit the Poor Households in Asia (RETA 5945)” (2001-2004, USD 1.1 mil).

Project Leadership (last 10 years)

- Leading the “fish marketing’ group at the Aquaculture/Fisheries Center of Excellence, and implementing a number of projects.
- Leading the project on “Retail Databases to Determine Market Trends for Southern Aquaculture Products” funded by the Southern Aquaculture Research Center (SRAC) of USDA.
- Acting as a Co-Principal Investigator of a multi-institutes project on “Economic Forecasting and Policy Analysis Models for Catfish and Trout”.
- Leading a study on ‘Asian Ethnic Fish Markets in the Northeastern USA’.
- Led a project on “Catfish Price” funded by the Arkansas Catfish Promotion Board.
- Led an Action research project on “community based fish culture the flood-prone rice ecosystems in South and Southeast Asia”. The project has integrated the biological research on rice and fish with the institutional research on common property resource governance. Subsequently led a follow-up project in six Asian and African countries

funded by the “Challenge Program on Water and Food” of the Consultative Group of International Agricultural Research (CGIAR).

- Led the WorldFish Center initiatives on ‘rehabilitation of coastal communities affected by 2004 Asian Tsunami’.
- Led a multi-country and multidisciplinary project on “Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit the Poor Households in Asia”. Thirty-five partner institutes from nine Asian countries were involved in implementing this project.
- Led a project on ‘impact of marketing of freshwater aquatic products on rural livelihoods in Asia’.
- Led a number of projects/activities to estimate the impact of Natural Resource Management (NRM) Research (both ex ante and ex post) in Asia (Bangladesh) and Africa (Malawi and Cameroon). Led a whole of the WorldFish Center effort on ‘prioritization of aquatic resources research’. Led and implemented a case study on ex post impact of NRM research in Malawi granted by the Science Council’s (of CGIAR) Special Panel on Impact Assessment.
- Led a multidisciplinary project on "genetic improvement of carp species in Asia" and conducted research on prioritization of carp genetic research. The project was implemented in six major carp producing Asian countries (Bangladesh, People’s Republic of China, India, Indonesia, Thailand and Vietnam. Subsequently led a follow-up project on ‘adoption and impact of genetically improved carp species in Asia’.
- Led a collaborative project on "Production, Consumption, Accessibility and Marketing of Aquaculture products in Asia" in five Asian Countries (Bangladesh, China, India, The Philippines, and Thailand).
- Led a multidisciplinary project on “Dissemination and Evaluation of Genetically Improved Tilapia Species in Asia (DEGITA)”. The results of this project were published in seven papers of a special issue (vol. 4, no. 1&2, November 2000) of the *Aquaculture Economics and Management*). This special issue has a very high demand

and the Journal authority has published a 2nd printing (first in the history of the journal)

Supervision of Graduate Students

On going

1. University of Arkansas at Pine Bluff: Supervisor of three MS students and a member of thesis committee of two MS students.
2. Wageningen University, The Netherland: co-supervisor of a PhD Student since 2007.
3. Malaysian National University, Malaysia: Co-supervisor of a PhD student since 2006.

Completed

1. Bangladesh Agricultural University, Major supervisor /Co-supervisor: Four MS (in Agricultural economics) students successfully completed their programs (1989-1993).
2. Universiti Sains Malaysia (Malaysian Science University): Co-supervisor of one MSc student.
3. University of Stirling, UK: Co-Supervision of a PhD thesis research (2002 - 2008) in Aquaculture marketing.

Professional Service

- Served/serving on the editorial boards of the following journals:
 - Member of the Editorial Board of the Farm Economy, Journal of the Bangladesh Agricultural Economists Association (1989-1991).
 - Member of the Editorial Board of the Aquaculture Economics and Management Journal (2005 to date).
 - Guest Editor of the Aquaculture Economics and Management Journal, Vol 4 (1&2), 2000; Vol 9 (no. 1 and 2), 2005; Vol 14 (no.1), 2010.
 - Member of the Editorial Board of the “Reviews in Aquaculture” journal (2009 to date).
 - Member of the Editorial Board of the “Food Security” journal (2009 to date).

- Organizer /Co-Organizer of the following professional society meetings:
 - Session on ‘Aquaculture Economics’, Sixth Asian Fisheries Forum, 25-30 November, 2001, Kaohsiung, Taiwan.
 - Special session on Strategies and Options for Sustainable Aquaculture Development, World Aquaculture 2002, Annual Meeting of the World aquaculture Society Meeting, 23 –27 April, Beijing, China.
 - Panel Session on ‘Socioeconomics and environmental Impacts ‘, International Forum on Tilapia Farming in the 21st Century, 25-27 Feb 2002, Laguna, Philippines.
 - Special session on ‘Fish Supply and Demand in Asia’, 11th biennial meeting of the International Institute of Fisheries Economics and Trade (IIFET), 19-22 August 2002, Wellington, New Zealand.
 - Special session on ‘Outlook on Global Fish Production, Consumption, and Trade: Implications and Options for the Developing World’, 12th biennial meeting of the International Institute of Fisheries Economics and Trade (IIFET), 25-30 July 04, Tokyo, Japan.
 - Symposium on ‘Sustainable Development of Aquaculture and Fisheries-Challenges for Economists’, 26th conference of the International Association of Agricultural Economists, 12-18 August 2006, Gold Coast, Queensland, Australia.
 - Two special sessions on ‘Aquaculture Development for All: Socioeconomic and Institutional Challenges’, World Aquaculture 2008, Biennial Meeting of the World aquaculture Society Meeting, 19-23 May 2008, Busan, Korea.

- Convener or Co-convener of the following international scientific meetings:
 - Second Steering Committee Meeting of International Network of Genetics in Aquaculture, 20-27 June 1995, Hyderabad, India.
 - Third Steering Committee Meeting of International Network of Genetics in Aquaculture, 8-11 July 1996, Cairo, Egypt.
 - Final workshop of the ‘Dissemination and Evaluation of Genetically Improved Nile Tilapia in Asia (DEGITA) Project’, 18-19 February

1997, Manila, Philippines.

- Planning workshop of the Genetic Improvement of Carp species in Asian Project, 26-29 July, 1997, 37 participants.
 - Fifth Steering Committee Meeting of International Network of Genetics in Aquaculture, 3-5 March 1999, Kuala Lumpur, Malaysia.
 - Final workshop of the Genetic Improvement of Carp species in Asian project, 14-17 November, 2000, Wuxi, China.
 - Writing workshop for the Genetic Improvement of Carp species in Asian project, 18 Nov- 2 Dec, 2000, Penang, Malaysia.
 - Final workshop of the research project on ‘Increasing and Sustaining the Productivity of Fish and Rice in the Flood-prone Ecosystems in South and Southeast Asia’, 12-13 June 2001, Dhaka, Bangladesh.
 - Planning workshop of the project on “Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit the Poor Households in Asia”, 21-24 August 2001, Penang, Malaysia, 60 participants from 10 Asian countries.
 - Regional workshop on “Aquaculture Technologies and fishing Practices in Asia”, 17-27 March 2003, 14 participants from 9 Asian Countries.
 - Final workshop of the project on “Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit the Poor Households in Asia”, 17-20 March 2004, Manila, Philippines, 42 participants from 9 Asian countries.
 - Writing workshop of the Project on “Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit the Poor Households in Asia”, 1-16 June 2004, 14 participants.
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- Direct involvement in formulating agricultural and fisheries policy (including research policy) in various countries , including the followings:
 - Member of the US Department of Agriculture (USDA) coordinated “Catfish Research and Extension Theme Team” (Economics and Marketing Group) (on going).

- Involved (as a Co-project Director) in the formulation of aquaculture development strategies in the Philippines (2006-2007).
- Contributed in developing fisheries response to rehabilitate coastal communities affected by 2004 Asian Tsunami, and led rehabilitation efforts of the WorldFish Center (2005-2007).
- Worked as a Member of the Planning Advisor's (Minister) Task Force on 'Bangladesh Development Strategies for the 1990s', and wrote a section on agricultural development strategy (1990).
- Wrote a concept paper on small farmer development for the Planning Commission, Government of Bangladesh, and the concept was adopted, with partial modification, in the fourth Five Year Plan of Bangladesh (1991-1995).
- Worked as a Team Member for drafting national agricultural policy for Bangladesh (1989-1991).

Collaborations

- Have conducted collaborative research work with more than 100 institutes and with several hundreds individuals both from developed and developing countries.