

March 2017

RUPAK GOSWAMI

Assistant Professor at the Faculty Centre for Integrated Rural Development and Management, Ramakrishna Mission Vivekananda University (since May, 2007)

Birth: December 18, 1978, Kolkata, INDIA

Address: IRDM Faculty Centre, Ramakrishna Mission Ashrama, Narendrapur, Kolkata-700103, West Bengal, INDIA

Email: goswamirupak@rediffmail.com

Education: PhD in Agricultural Extension (April 2007), Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University, West Bengal)

MSc (Ag) in Agricultural Extension (September 2002), Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University, West Bengal)

BSc (Ag) (September 2000) Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University, West Bengal)

Related Achievements/Experience

National Scholarship (1991)

Qualified National Eligibility Test (NET), 2004 conducted by ASRB

Senior Research Fellow (SRF) for Indian Council of Agricultural Research sponsored *ad-hoc* scheme on "Study on farmer-to-farmer communication system and their implication in agricultural development" (2002-2004)

Worked in the West Bengal Chapter of EU supported Telesupport project (2006-2007)

Young Scientist Award 2017 from Society of Extension Education, Agra

Others:

Member, Society of Extension Education, Agra

External Expert for SAMETI, West Bengal

Resource Person for PGDAEM course of MANAGE, Hyderabad

Member, Academic Council and Board of Studies, IRDM F/C, RKMVU

Ph. D. Dissertation: Understanding Farmer-to-Farmer Communication within the Sustainable Rural Livelihoods (SRL) Framework. Department of Agricultural Extension, BCKV, Mohanpur, Nadia, West Bengal, INDIA

M. Sc. Thesis: Interpersonal Communication Pattern of Farmers and their Perception Regarding Some Selected Gram Panchayat Activities. Department of Agricultural Extension, BCKV, Mohanpur, Nadia, West Bengal, INDIA

Associate Editor

- *Journal of Agricultural Extension and Rural Development*
- *Indian Research Journal of Extension Education*

Reviewed for: Journal of Agricultural Science and Technology-Iran, Annals of Agricultural Science (Elsevier), Journal of Agricultural Science-Canada, Journal of Agricultural Extension and Rural Development, African Journal of Pharmacy and Pharmacology, Indian Research Journal of Extension Education, International Journal of Bio-resource and Stress Management

Research Interest: Sustainable Rural Livelihoods; Integrated Farming System; Sustainability of Agricultural System; Social Network Analysis; Participatory Enquiry; Climate Change Adaptation and Indigenous Knowledge; Rural Migration and Agriculture

Courses taught:	Extension Education-I	[ARD-103]
	Extension Education-II	[ARD-355]
	Research Methodology-I	[ARD-105]
	Research Methodology-II	[ARD-205]
	Rural Development Management	[ARD-301]
	Extension Programmes & Organisations	[ARD-302]
	Seminar-I	[ARD-403]
	Seminar-II	[ARD-404]
	Dissertation Work	[ARD-405]
	Rural Extension	[ABT-205]
	Review of Literature	[ARD-501]
	Advance Research Methodology	[ARD-502]
	Computer Application in Research	[ARD-503]
	Emerging Thoughts and Techniques in Extension	[ARD-551]
	Sustainable Rural Livelihoods	[ARD-553]

Software handled: SPSS for Windows, XLSTAT, UCINET & NetDraw

GRANTSMANSHIP:

Goswami, R. (2012). **(PI)** Improved Quality of Rural Life through Scientific Management of Natural Resources. Department of Science and Technology, Ministry of Science and Technology, Government of India [**Period: 2013-2015; Share: INR 22,04,000; Fully funded**]

Goswami, R. (2013). **(Co-PI)** Agronomic, economic, social and environmental benefits of improved nutrient management practices in maize production systems under variable farm size, climate, soil fertility conditions and farmer resource endowment in India. International Plant Nutrition Institute (IPNI) & Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT), Mexico. [**Period: 2013-2015; Share: INR 4,00,000; Fully funded**]

ACADEMIC VISITS ABROAD

1. Global Healthshare, University of California, Davis, to work with Dr. Somen Nandy [October 2013]
2. Department of Biology, Centre for Sustainability, Georgia Southern University, GA, USA, to work with Dr. Subhrajit K. Saha [October-November 2013]

COLLABORATIONS [Project, Part of Academic Programme, Joint Publication]

1. Global Healthshare, University of California, Davis, CA, USA
2. Department of Biology, Centre for Sustainability, Georgia Southern University, GA, USA
3. Sociological Research Unit, Indian Statistical Institute, Calcutta
4. International Plant Nutrition Institute, South Asia Programme
5. Department of Agricultural Extension, Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India
6. Department of Agricultural Economics, Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India
7. Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India

STUDENTS' RESEARCH:

Doctoral Students

1. *Purnabha Dasgupta* (2012-)

Research Area: Identification and Characterization of Integrated Farming Systems and Assessment of their Sustainability in Coastal Agro-Climatic Zone of West Bengal, India

[Research Co-Guide: Subhrajit K. Saha, Department of Biology, Georgia Southern University, US]

2. *Sanchayeeta Misra* (2012-)

Research Area: Application of Social Network Analysis in Livelihood System Study in Selected Areas of South 24 Parganas, West Bengal, India

[Research Co-Guide: Debabrata Basu, Professor, Dept. of Agricultural Extension, Bidhan Chandra Krishi Viswavidyalaya]

3. *Sudarsan Biswas* (2012-)

Research Area: Farmer Participatory Research for Standardization of Organic Nutrient Management for Selected Crops in Selected Agro-climatic Zones of West Bengal

[Research Co-Guide: Md. Nasim Ali, Dept. of Biotechnology, Bidhan Chandra Krishi Viswavidyalaya]

4. *Shatabdi Saha* (2014-)

Research Area: Male Out-migration and Empowerment of Left-behind Women in Selected Areas of Indian Sunderbans.

Masters' Students

Academic Period: 2006-08

1. A Study on Seasonal Dimension of Livelihoods in Selected Village of Purulia District, West Bengal
[Anirban Banerjee]
2. A Study on Market and Marketing Channel of Some Perishable Vegetables (with Manas Ghosh)
[Arun Kumar Das]
3. A Study on the Potentiality of Organic Farming in Village Chango of Baruipur Block, South 24 Parganas District (with Manas Ghosh)
[Gopal Nunia]
4. A Study on Monitoring the Impact of Joint Forest Management on Rural Livelihoods in Selected Areas of Purulia
[Malay Paul]
5. How Good are Farmers' Classification? A Study on Rainfed Rice Cultivation in Selected Village of North 24 Parganas District, West Bengal
[Malay Sankar Biswas]
6. Intervention of Vulnerable Villagers Against Flood at Sindrani Gram Panchayat of Bagdah Block, North 24 Parganas
[Prosenjit Mondal]
7. An Assessment of Biological, Social and Techno-Managerial Factors Influencing Ichthyofaunal Diversity and Productivity of Different Lentic Aqua System of Uttar Dinajpur District, West Bengal
[Uttam Kumar Sarkar]

Academic Period: 2007-09

1. Plant Species Diversity of Homestead Gardens and their Contribution to Household Food Security, Nutrition and Livelihoods of Rural Poor: A Study From South 24-Parganas District of West Bengal, India
[Sayanti Sur]
2. An Analysis of Web Resources on Recent Development in Participatory Development Works (1995-2009)
[Namrata Dey]
3. A Study on the Agricultural Knowledge and Information System (AKIS) of Kalimpong-II Block of Darjeeling District, West Bengal
[Tezoshi Khawas]
4. Gender Sensitive Poverty Profiling through Local Perception at Habra-II Block of North 24 Parganas District, West Bengal
[Saikat Majumdar]

Academic Period: 2008-10

1. Adapting Agriculture against the Effect of Climate Change: A Study in Selected Areas of *Sunderbans* Region of West Bengal
[Koustuv Roy]
2. Looking through the Eyes of 'Poorest of the Poor': Study of Poorest Households in Selected Areas of South 24 Parganas and Purulia District of West Bengal
[Monodeep Mukherjee]
3. Looking through the Eyes of Hungry People: Study of Food Insecure Households in Selected Areas of South 24 Parganas District of West Bengal
[Sudip Kanji]

Academic Period: 2009-11

1. Study on Farm-Based Livelihood Diversification in Selected Areas of South 24 Parganas District of West Bengal **[Biman Das]**
2. A Study on NGO Interventions Regarding Organic Farming in West Bengal and their Agency and Farm Level Constraints **[Nilkantha Kar]**
3. Evaluation of Farmers' Training Programmes Provided by an Extension Agency (with Dr. Manas Ghosh). **[Sayan Banerjee]**

Academic Period: 2010-12

1. Climate Change Impact on Agriculture and Farmer's Coping Strategy with the Application of Indigenous Knowledge in Selected Areas of Indian Sunderbans. **[Alakananda Das]**
2. Economic, Social and Ecological analysis of Integrated Farming Systems in Selected Areas of South 24 Parganas District, West Bengal, India **[Debasish Ray]**

Academic Period: 2011-13

1. Development and Field Testing of an Impact Monitoring tool for Assessing the Impact of MGNREGA on Natural Resources: Study from selected areas of Purulia district of West Bengal. **[Abhijit Kundu]**
2. Changing trend of tribal agriculture in selected areas of Purulia district of West Bengal. **[Rahul Bhattacharya]**
3. Impact of Human Migration on Rural Livelihoods: A Study in Selected Areas of South 24 Parganas, West Bengal **[Partha Sarathi Sarkar]**

Academic Period: 2012-14

1. Integration in Farming Systems for Multiple Benefits and Assessment of their Sustainability in Selected Areas of Patharpratima Block, West Bengal **[Maitri Ghosh]**
2. Application of Social Network Analysis for Studying Rural Livelihoods in a Village of Coastal West Bengal **[Tandra Mondal]**
3. Contribution of Integrated Farms to the Livelihoods of Farm Families in Selected Areas of Patharpratima Block of South 24 Parganas, West Bengal **[Mainak Basu]**

Academic Period: 2013-15

1. Influence of Male Out-Migration on the Process of Empowerment of Women left at Source: Study at Patharpratima Block of South 24 Parganas, West Bengal, India **[Sourodeep Bose]**

Academic Period: 2014-16

1. A study on *Kanyashree Prakalpa* and its effect on the adolescent girls in Nalhati-II Block, Birbhum **[Debanjali Sanyal]**
2. Effect of Transnational and Inland male out-migration On livelihoods of the left-behind: Study in Namkhana bloch of South 24 Parganas, West Bengal **[Manimala Roy]**

PUBLICATIONS

In refereed journal:

1. Basu, D., Banerjee, S., & **Goswami, R.** (2005). Problems and prospects of on-line education: rethinking distance education in a changing world. *Indian Journal of Adult Education*, 66(3&4):173-180.
2. Basu, D., Banerjee, S., **Goswami, R.**, & Biswas, D. (2006). Participatory Weed Assessment for Promoting Precision and Sustainability. *Journal of Crop and Weed*, 2(1):38-46. [NAAS Rating: 5.28]
3. **Goswami, R.**, Basu, D., Banerjee, S., & Mazumder, D. (2008). Effect of livelihoods on the stability of information networks: Initial hints from different agricultural production systems of West Bengal, India. *Psychological Research Journal*, 32 (1 & 2): 12-21.
4. Basu, D., Banerjee, S., & **Goswami, R.** (2009). Vegetable cultivation on ail (bund): a successful farmer-led technology transfer. *Acta Horticulturae* (ISHS), 809:155-160. http://www.actahort.org/books/809/809_13.htm [SJR: 0.171]
5. Basu, D., Banerjee, S., & **Goswami, R.** (2009). Farmers' knowledge management in banana cultivation in a village of West Bengal, India: a reflection of farmer managed technology adaptation and transfer in horticulture. *Acta Horticulturae* (ISHS), 832:49-56. http://www.actahort.org/books/832/832_6.htm [SJR: 0.171]
6. Das, A., Basu, D., & **Goswami, R.** (2009). Targeting extension intervention for promotion of sunflower productivity in coastal saline zone of West Bengal. *Journal of Crop and Weed*. 5(1):122-126. [NAAS Rating: 5.28]
7. **Goswami, R.**, & Sarkar, A. (2010). Interpersonal Communication Pattern of Farmers and their Perception regarding Some Selected Gram Panchayat Activities. *Journal of Interacademia*, 14(2):254-259. [NAAS Rating: 3.96]
8. **Goswami, R.**, & Basu, D. (2010). Does Information Network Affect Technology Diffusion? A Study on the Spread of Banana and Guava Cultivation among Farmers of Nadia District, West Bengal, India. *Research Journal of Agriculture and Biological Sciences*, 6(6):701-707. <http://www.aensiweb.com/rjabs/rjabs/2010/701-707.pdf>
9. **Goswami, R.**, Ghosh Ray, J., & Ghose, J. (2010). Telesupport Experiment for Agricultural Information Management in West Bengal, India. *The Journal of Community Informatics*, 6(2). <http://www.ci-journal.net/index.php/ciej/article/view/518/588>
10. Das, A., Basu, D., & **Goswami, R.** (2010). Factors Influencing Retailing Performance of Farm Inputs in South 24 Parganas District of West Bengal. *Indian Research Journal of Extension Education*, 10(3): 49-53. <http://seea.org.in/vol10-3-2010/10.pdf> [NAAS Rating: 4.81]

11. Basu, D., Basu, G., Biswas, S., & **Goswami, R.** (2011). Stakeholders' perceived attributes of fresh vegetables: an important input in breeding program. *Acta Horticulturae* (ISHS), 895:51-57. http://www.actahort.org/books/895/895_6.htm [SJR: 0.171]
12. **Goswami, R.**, & Ali, N. (2011). Use of participatory exercise for modelling the adoption of organic agriculture. *The Journal of Extension* (**official Journal of the US Cooperative Extension**), 49(3). <http://www.joe.org/joe/2011june/iw4.php> [SJR: 0.219]
13. **Goswami, R.**, & Basu, D. (2011). How Does Information Network Affect Spread of New Crops? A Study on the Spread of Chilli and Wheat Cultivation among Farmers of Purulia District, West Bengal, India. *Indian Research Journal of Extension Education*, 11(2):50-58. <http://www.seea.org.in/vol11-2-2011/10.pdf> [NAAS Rating: 4.81]
14. **Goswami, R.**, Biswas, M.S., & Basu, D. (2012). Validation of participatory farming situation identification: A case of rainfed rice cultivation in selected area of West Bengal, India. *Indian Journal of Traditional Knowledge*, 11(3): 471-479. [SJR: 0.301; IF: 0.371; NAAS: 6.37]
15. **Goswami, R.**, & Paul, M. (2012). Using Sustainable Livelihoods Framework for assessing the impact of Extension programmes: An empirical study in the context of Joint Forest Management, *Indian Research Journal of Extension Education*, 12(3):28-36. <http://www.seea.org.in/vol12-3-2012/06.pdf> [NAAS Rating: 4.81]
16. Das, A., Basu, D., & **Goswami, R.** (2012). Accessing Agricultural Information through Mobile Phone: Lessons of IKSL Services in West Bengal. *Indian Research Journal of Extension Education*, 12(3):102-107. <http://www.seea.org.in/vol12-3-2012/19.pdf> [NAAS Rating: 4.81]
17. Ghosh, S., Majumder, D., & **Goswami, R.** (2012). Broiler performance at different stocking density. *Indian Journal of Animal Research*, 46 (4):381-384. [Role: Data Analyst and Interpreter] [SJR: 0.153; IF: 0.091; NAAS: 6.09]
18. Das, A., Basu, D., & **Goswami, R.** (2012). Mobile Phone in accessing agricultural information through IKSL voice messaging services: Status, lacuna and suggestions. *Journal of Interacademia*, 16(4): 964-974. [NAAS Rating: 3.96]
19. Chatterjee, S., Ray, M., Halder, P., & **Goswami, R.** (2013). Economic Characterization of Predominant Farming Systems in West Bengal, India. *American Journal of Agriculture and Forestry*, 1(3):40-47. doi: 10.11648/j.ajaf.20130103.11.
20. **Goswami, R.**, Chatterjee, S., & Prasad, B. (2014). Farm types and their economic characterization in complex agro-ecosystems for informed extension intervention: study from coastal West Bengal. *Agricultural and Food Economics* (**Springer**), 2(1), <http://link.springer.com/article/10.1186/s40100-014-0005-2>
21. Ali, N., Yeasmin, L., Gantait, S., **Goswami, R.**, & Chakraborty, S. (2014). Screening of rice landraces for salinity tolerance at seedling stage through morphological and molecular markers. *Physiology and Molecular Biology of Plants* (**Springer**) [Role: Data Analyst and Interpreter] [SJR: 0.479; IF: 1.351; NAAS: 7.35]

22. Banerjee, H., **Goswami, R.**, Chakraborty, S., Dutta, S., Majumdar, K., Satyanarayana, T., Jat, M. L., & Zingore, S. (2014). Understanding biophysical and socio-economic determinants of maize (*Zea mays* L.) yield variability in eastern India. *NJJAS: Wageningen Journal of Life Sciences (Elsevier)*, 70-71:79-93. doi:10.1016/j.njas.2014.08.001. [SJR: 0.370; IF: 0.635; NAAS: 6.64]
23. Biswas, S., Ali, N., **Goswami, R.**, & Chakraborty, S. (2014). Soil health sustainability and organic farming: A review. *Journal of Food, Agriculture & Environment*, 12(3&4):132-138. [SJR: 0.228; NAAS: 4.0]
24. Misra, S., **Goswami, R.**, Basu, D., & Jana, R. (2014). Application of social network analysis in livelihoods system study. *Space and Culture India*. 2(3):24-46.
25. Dasgupta, D., & **Goswami, R.** (2014). How do we conceptualize sustainability of agriculture? Exploring multidimensional sustainability indicators for agricultural systems of West Bengal. *Palli Charcha - The Indian Journal of Rural Studies*, 1(1):23-31.
26. Chatterjee, S., **Goswami, R.**, & Bandyopadhyay, P. (2015). Methodology of identification and characterization of farming systems in irrigated agriculture: Study in West Bengal state of India. *Journal of Agricultural Science and Technology*, 17(5):1127-1140. [SJR: 0.477; IF: 0.816; NAAS: 6.82]
27. Dasgupta, P., **Goswami, R.**, Ali, M. N., Chakraborty, S., & Saha, S. (2015). Multifunctional roles of integrated farming in small holder systems. *International Journal of Bio-resource and Stress Management*, 6(4):424-432. [NAAS Rating: 4.65]
28. Dumrya, S, Ghosh, S, & **Goswami, R.** (2015). Characterization of backyard poultry farming in Indian Sundarban region. *Indian Journal of Poultry Science*, 50(1):90-95. [NAAS Rating: *]
29. Haldar, S., Misra, S., Pal, S., Basu, D., & **Goswami, R.** (2016). Understanding Agricultural Information Networks in West Bengal, India. *Indian Research Journal of Extension Education*, 16(1):25-34. [NAAS Rating: 4.81]
30. Biswas, S., **Goswami, R.**, Ali, MN, Banerjee, H, & Pramanick, M. (2016). Farmer participatory approach for formulating crop-specific organic nutrient packages in two contrasting agroclimatic zones of the West Bengal state, India. *Journal of Experimental Agriculture International*, 14(5). [NAAS Rating: 4.69]
31. **Goswami, R.**, Dasgupta, P., Saha, S., Venkatapuram, P., Nandi, S. (2016). Resource integration in smallholder farms for sustainable livelihoods in developing countries. *Cogent Food & Agriculture* 2:1 (1272151) (Taylor & Francis Group). <http://www.tandfonline.com/doi/abs/10.1080/23311932.2016.1272151>
32. Ghosh, S., Hazra, A., Sahu, N.C., **Goswami, R.**, Ghosal, A., Mukherjee, A. (2016). Heavy Metal Levels in Various Fodders in the Periphery of Kolkata. *Indian Journal of Animal Nutrition*, 33(4):490-493. [NAAS Rating: 5.02]
33. **Goswami, R.**, & Majumder, S. (2017). Construction of Gender Sensitive Poverty Line based on Local Perception: Evidence from Habra-II Block of West Bengal State in India. *The Social Science Journal (Elsevier)*, 54(1):76-92. DOI: 10.1016/j.soscij.2016.11.004 [IF: 0.807; SJR: 0.442]

34. **Goswami, R.**, Saha, S., Dasgupta, P. (Accepted). Sustainability assessment of smallholder farms in developing countries. *Agroecology and Sustainable Food Systems* (Taylor & Francis). DOI: 10.1080/21683565.2017.1290730 [IF:0.926; SJR:0.577]
35. Misra, S., **Goswami, R.**, Mondal, T., Jana, R. (Accepted). Social networks in the context of community response to disaster: Study of a cyclone-affected community in coastal West Bengal. *International Journal of Disaster Risk Reduction* (Elsevier). [IF:1.242; SJR:0.599]

Popular Journals/Magazines

1. Dasgupta, P., **Goswami, R.**, Ali, N., Biswas, S., & Saha, S. (2014). Bio-diverse integrated farms-Means for reducing rural poverty. *LEISA Newsletter*, 16(2):20-23.
2. Banerjee, H., **Goswami, R.**, Chakraborty, S., Dutta, S., Majumdar, K., Satyanarayana, T., Jat, M.L., & Ray, K. (2014). Integrating Biophysical and Socio-economic Determinants into Field-specific Fertiliser Recommendations. *Better Crop – South Asia*, 8(1):18-20.
3. Banerjee, H., **Goswami, R.**, Chakraborty, S., Dutta, S., Majumdar, K., & Satyanarayana, T. (2015). Farm typology-based nutrient management with respect to phosphorus in the tropical environments of eastern India. *Better Crop – South Asia*, 9(1): 8-11.
4. **Goswami, R.** (2016). Ekibhuto Krishi Vigyan: Ekti Prostabona (Unitary Agricultural Science: A Proposal). *Samajshiksha*, 60(6)

Book:

1. Dasgupta, D., Mallick, A. K., Das, P. K., **Goswami, R.**, Dutta, A. and Ali, N. (Eds.) (2012). *Integrated Rural Development and Management: Issue, Strategies and Policy Options*. Udaipur: Agrobios. [ISBN : 9788177544831]
2. **Goswami, R.**, Basu, D. (2015). *Farmer-to-Farmer Communication for Sustainable Rural Livelihoods: The Theoretical Bases*. Germany: Lambert Academic Publishing. [ISBN: 978-3-659-81112-8]

Book Chapter:

1. Basu, D., Biswas, D., & **Goswami, R.** (2004) Upward and Downward Mobility in Well-being. In: Mukherjee, N. and Rupa, D. (eds.) *Learning to Share: Experiences and Reflections on Participatory Approaches*. Concept Publishing Company, New Delhi. Pp.118-134 [ISBN 81-8069-176-4]
2. Basu, D., Banerjee, S., & **Goswami, R.** (2004). Farmer-to-Farmer Extension in Banana Cultivation at Ghoragachha: An Example for Mainstreaming Alternate Extension Strategies. In: B. Banerjee, S. Sarkar, D. Mishra and P.K. Bauri (Eds.) *Banana Research in India*, AICRP on Tropical Fruits, BCKV, Mohanpur, West Bengal.

3. Basu, D., & **Goswami, R.** (2006). Participation in development: concept and Strategies. In: M. M. Adhikary, A. Sarkar, S. K. Acharya and D. Basu (eds.) *Participatory Planning and Project Management in Extension Sciences*. Agrotec Publishing Academy, Udaipur. [ISBN 81-8321-021-X]
4. Basu, D. Banerjee, S., & **Goswami, R.** (2009) Farmer's Knowledge and Scientists' Knowledge: Myths, Mutualities and Synergies. In: D. Dasgupta (ed.) *Indigenous Knowledge System and common People's Rights*, Agro-bios, Jodhpur. pp 77-82. [ISBN : 81-7754-396-2]
5. **Goswami, R.** (2010) Extension for environmentally sound agriculture: basic theories and agenda for action. In: D. Dasgupta (ed.) *Environmental Concerns*, Agro-bios, Jodhpur, pp.343-360. [ISBN: 81-7754-428-4]
6. **Goswami, R.**, & Ali, N. (2011) Modeling the adoption of organic agriculture: Need for local perception. In: D. Dasgupta (ed.) *Farm Sector Development: Emerging Issues*, Agro-bios, Jodhpur, pp.235-244. [ISBN: 9788177544299]
7. **Goswami, R.** (2011) Research on climate change adaptation: note for agricultural extension scientists. In: D. Dasgupta (ed.) *Farm Sector Development: Emerging Issues*, Agro-bios, Jodhpur, pp.263-276. [ISBN: 9788177544299]
10. Basu, D., & **Goswami, R.** (2011). Scientific and Traditional Knowledge: the Agenda for 'Mutual Validation. In: R.M. Sarkar (ed.) *Indigenous Knowledge in Traditional Folk Panorama: Genesis, Development & Applications*. Serials Publications: New Delhi. Pp.88-111. [ISBN: 9788183874700]
11. Banerjee, A., & **Goswami, R.** (2012). Seasonality and rural livelihoods: lessons from village-level study in Purulia district. In: D. Dasgupta, A. K. Mallick, P. K. Das, **R.Goswami**, A.Dutta, & N. Ali (Eds.) *Integrated Rural Development and Management: Issue, Strategies and Policy Options*. Agrobios: Udaipur. [ISBN : 9788177544831]
12. **Goswami, R.** (2012). Telecentre experimentation for agricultural information management: The case of Telesupport Project in West Bengal, India. In M. M. Adhikary, S. K. Acharya, D. Basu (eds.) *ICT in Agriculture: The Changing Global Order and Scale*. Udaipur: Agrotech Publishing Academy. Pp.642-658. [ISBN:978-81-8321-290-8]
13. **Goswami, R.**, Roy, K., Dutta, A., & Ali, N. (2013). Climate change adaptation of agriculture and farmers' knowledge: evidences from selected areas of Indian Sunderbans. In D. Dasgupta (ed.) *Indigenous Knowledge for Food and Nutritional Security*. Agrobios: Udaipur. Pp.307-325. [ISBN: 978-81-7754-509-8]
14. Dutta, A., **Goswami, R.**, & Dasgupta, D. (2013). Indigenous Knowledge Base in Coastal Agro-Ecosystem of West Bengal, India. In D. Dasgupta (ed.) *Indigenous Knowledge for Food and Nutritional Security*. Agrobios: Udaipur. Pp.344-354. [ISBN: 978-81-7754-509-8]

15. **Goswami, R.**, & Dasgupta, P. (2014). Integrated farming system and sustainability of agriculture: Case of integrated farms of Sunderbans. In D. Dasgupta (ed.) *Advances in Extension Education and Rural Development*. Vol. I. Agrobios: Udaipur. [ISBN: 9788177545296]
16. **Goswami, R.** (2015). Effective photography for extension communication. In: Adhikary, M. M., Acharya S. K., & Das, J. K. (eds.). *Advanced Extension Strategy For Communication And Management Skill For Extension Personnel: The Approach, Methodology And Application*. E-Book published by CBP, Agricultural Education Division, ICAR, New Delhi.
17. **Goswami, R.**, & Dasgupta, P. (2016). Integration in Farming Systems and Sustainability of Smallholder Agriculture. In: Sinha, N. (Ed.) *Health, Nutrition and Hygiene: The Dynamics of Social Ecology in India*.

Proceedings of Seminar/Symposium/Workshop

1. Basu, D., Banerjee, S., & **Goswami, R.** (2003). Problems and prospects of on-line education: rethinking distance education in a changing world. Proceedings of the National Seminar on „ “New Paradigm of Policy Planning in Higher Education across Countries: Challenges before the Management”, held at BCKV, Mohanpur, Nadia, West Bengal during November 1-2, 2003.
2. Basu, D., Banerjee, S., & **Goswami, R.** (2004). Farmer-to-Farmer Extension in Banana Cultivation at Ghoragachha: an Example for Mainstreaming Alternate Extension Strategies. Proceedings of the National Seminar on “Banana Industries: Present Scenario and Future Strategies”, organized by AICRP on Tropical and Subtropical Fruits and held at FTC, Kalyani, West Bengal, India, during 11- 13 June, 2004.
3. **Goswami, R.**, & Basu, D. (2008). What information is needed to sustain rural livelihoods? Conceptualising farmers’ communication within the Sustainable Livelihoods (SL) framework (pp. 73-85). Proceedings of the Regional Seminar on “Agriculture based Livelihood Promotion” organized by *BASIX* at Kolkata, India on September 05, 2008.
4. Dasgupta, D., Das, P.K., Mallick, A.K., Dutta, A., **Goswami, R.**, & Ali, N. (2010). Proceedings of the National Seminar on “Integrated Rural Development and Management: Issues, Strategies and Policy Options”, 17-18 December, 2010, IRDM Faculty Centre of Ramakrishna Mission Vivekananda University, Narendrapur, Kolkata, West Bengal, India.
5. **Goswami, R.** (2011). Rethinking agricultural development for livelihood security. Extended Summary of International Symposium on “System Intensification towards Food & Nutritional Security” held during 24-27 February, 2011 at FTC, BCKV, India.
6. **Goswami, R.** (2013). Using computer-based plagiarism detection tools for checking originality of selected peer-reviewed publications in agriculture and rural development. In Ganguly, N. et al. (Eds.) *A Discourse on Reprographic Rights and Copyrights: Contemporary Facets*, Indian Statistical Institute, Kolkata.
7. Chakraborty, S., Dutta, S., Banerjee, H., **Goswami, R.**, Majumdar, K., Satyanarayana, T., Jat, M. L., & Johnston, A. (2014). Evaluating Soil Fertility Parameters in Maize Growing Smallholder

Agricultural Systems of West Bengal, India Using Wet Chemistry and Diffuse Reflectance Spectroscopy Technique. Proceedings of 20th World Congress of Soil Science. pp.170-171.

8. Dutta, S. K., Majumdar, K., Banerjee, H., **Goswami, R.**, Chakraborty, S., Shahi, V., Kumar, R., Pattanayak, S. K., Satyanarayana, T., Kohli, A., & Johnston, A. (2015). Integrating the Concept of Farmer Typology with Nutrient Expert® – towards Improved Soil Nutrient Management for Maize Cultivation. In: Proceedings of National Seminar on Soil Health Management and Food Security: Role of Soil Science Research and Education. NBSS & LUP, Kolkata, pp. 34 – 37.
9. Majumdar, K., Dutta, S., Satyanarayana, T., Banerjee, H., **Goswami, R.**, Shahi, V., Pampolino, M., Jat, M.L., & Johnston, A. (2016). Addressing Heterogeneity of Maize Yield and Nitrogen Use Efficiency in India: Farm-specific Fertilizer Recommendation from the Nutrient Expert® Tool. In: Proceedings of the 7th International Nitrogen Initiative Conference, Melbourne, Australia, 4-8 December 2016.

Seminar/symposium/workshop attended/talks delivered

1. National Seminar on 'New Paradigm of Policy Planning in Higher Education across Countries: Challenges before the Management', held at BCKV, Mohanpur, **Nadia, West Bengal** on November 1-2, **2003**. [paper presented "*Problems and prospects of on-line education: rethinking distance education in a changing world*"]
2. National Seminar on "Banana Industries: Present Scenario and Future Strategies", held at FTC, **Kalyani, West Bengal, India**, 11- 13 June, **2004**.
3. National Seminar on "Integrated Production and Post-Harvest Management of Tropical Fruits", Farmers' Training Hall, **BCKV, West Bengal**, 11-12 April **2006**. [*Spread of banana and guava cultivation among farmers over time: the network consideration*]
4. 3rd Triennial Conference of Global Forum for Agricultural Research on "Reorienting Agricultural Research to meet the Millennium Development Goals" held at **New Delhi** in between 9-11 November, **2006**.
5. National Symposium on 'Plant Protection: Technology Interface', organized by Association of Advancement in Plant Protection (AAPP) at **Kalyani, West Bengal**, between 28th and 29th December, **2007** [Paper presented "*Beyond plant protection and farmer field school (FFS): a journey from plant protection to sustainable livelihoods*"].
6. National Seminar on Application of ICT in Agriculture and Rural Development held at **Birsa Agricultural University, Ranchi** in between 21-22 November, **2008** [Paper presented: "*Experimentation with ICT application in agricultural information management: recollecting experiences of Telesupport Project in West Bengal, India*"].
7. World Congress on 'Conservation Agriculture' during 04-07 February, **2009** organized by Ministry of Agriculture, Govt. of India, **New Delhi**. [Poster presented: "*Validating participatory microfarming situation analysis: a case of rainfed rice cultivation in the south 24 Paraganas district, West Bengal, India*"].

8. II National Seminar on Earthworm Ecology and Environment & IX National Symposium on Soil Biology and Ecology held on 21-23 November, **2009** at Inst. of Agriculture, **Visva-Bharati, West Bengal, India**. [Paper presented: "*Drawing on local perception for modeling the adoption of innovations in soil health management: a case of South 24 Parganas, West Bengal*"].
9. National Seminar on "Integrated Rural Development and Management: Issues, Strategies and Policy Options" held during 17-18 December, **2010** at IRDM Faculty Centre of Ramakrishna Mission Vivekananda University, Ramakrishna Mission Ashrama, Narendrapur, **Kolkata, West Bengal, India**.
10. International Symposium on "System Intensification towards Food & Nutritional Security" held during 24-27 February, **2011** at **FTC, BCKV, India** [Paper presented: *Rethinking Agricultural Development for Livelihood Security*].
11. National Congress on Extension Education **2011** organised by Society of Extension Education, Agra and **ICAR Research Complex, Goa at Goa, India** during 17-19 December, 2011 [Paper presented: *Using Sustainable Livelihoods Framework for Assessing the Impact of Extension Programmes: An Empirical Study in the Context of Joint Forest Management*].
12. National Seminar on "Safe Food For All" organized by the Department of ASEPAN, Palli Siksha Bhavana (Institute of Agriculture), **Visva-Bharati, Sriniketan, West Bengal, India** during 21-23 February, **2012** [Paper presented: *Study on Food Insecurity of Poorest Households in Selected Villages of South 24 Parganas, West Bengal*]
13. National Conference on Reprographic Rights and Copyright Act: Challenges and Management (NCRCA-2013) organised by Library, Documentation and Information Science Division, **Indian Statistical Institute, Kolkata** during 7-8 March **2013** [Paper presented: '*Using Computer-based Plagiarism Detection Tools for Checking Originality of Selected Peer-reviewed Publications in Agriculture and Rural Development*']
14. National Seminar on Sustainable Agriculture for Food and Nutritional Security in East and North-East India: Prospect and Future" organised by APBI on 01 March **2014** at **University of Calcutta, Kolkata**. [Poster presentations: (i) *Typology Delineation of Maize Growers in West Bengal for Farm-specific Crop Management*; (ii) *Scaling up Integrated Bio-diverse farming systems: proposal for a participatory risk minimizing mechanism for Coastal Saline West Bengal*; (iii) *Application of Social Network Analysis for Livelihood System Study*]
15. Research Cooperators' Meet of International Plant Nutrition Institute (IPNI) – South Asia program organized by **University of Agricultural Sciences, Dharwad, Karnataka** during September 16-17, **2014**. [Paper presented: *Farmer Typology: Do We Need a Paradigm Shift in Our Fertilizer Recommendation Strategy to Ensure Better Adoption*]
16. 12th Asian Conference and Expert Consultation on Maize for Food, Feed, Nutrition and Environment Security, organized by APAARI, CIMMYT, FAO of the United Nations and the Thai Department of Agriculture, during 30 October – 1 November, **2014** at **Bangkok, Thailand**. [Poster presentations: (i) *Typology delineation of maize growers in West Bengal, India for farm-*

specific crop management; (ii) Explaining maize yield in smallholder agricultural systems of eastern India by machine learning.]

17. "Conference on New Emerging Technology Skills", organized by European Union and the Department of Science and Technology, Government of India, held at **Chennai** during 16–17th February, **2015**.
18. "Sustainable Agriculture for Food Security and Better Environment", organized by Department of Agronomy, Bidhan Chandra Krishi Viswavidyalaya, at Farmers' Academy and Convention Centre (FACC), **Kalyani, West Bengal**, India during 17-18 December **2015**. [Paper presentation: *Sustainability Assessment in Smallholder Farms: A Methodological Outline*]
19. National Seminar on "Resource Based Inclusive Agriculture & Rural Development: Opportunities & Challenges", organized by IRDM Faculty Centre of RKMVU and APBI, University of Calcutta, at the IRDM Faculty Centre, Narendrapur, **Kolkata** during 15-16 January **2016**.
20. 4th Research Cooperators' Meet of International Plant Nutrition Institute (IPNI) – South Asia program organized by **Visva-Bharati University** during April 8-10, **2016**. [Paper presented: *Farm typology vis-à-vis fertilizer recommendation: Experience of typology project in West Bengal, India*]
21. 8th National Extension Education Congress organized by Indian Society of Extension Education, Agra and National Academy of Agricultural Research Management during 28-31 January **2017** at Hyderabad, India. [Paper presented: *Sustainability Assessment in Smallholder Farms: How do we Take Nutrition into Account; Best Paper awarded*]

Invited Talks

1. "*Integrated Farming and Sustainability in Agriculture: An Archetype from Tropical India*" at Department of Biology, Centre for Sustainability, **Georgia Southern University, GA, USA** on 24 October **2013**.
2. "*Farmer Typology: Do We Need a Paradigm Shift in Our Fertilizer Recommendation Strategy to Ensure Better Adoption*" at Research Cooperators' Meet of International Plant Nutrition Institute (IPNI) – South Asia program organized by **University of Agricultural Sciences, Dharwad**, Karnataka during September 16-17, **2014**.
3. "Application of Social Network Analysis in Agricultural Research and Extension: Some Empirical Evidences" at the Sociological Research Unit, **Indian Statistical Institute, Kolkata** on 5 February **2016**.
4. "*Farm typology vis-à-vis fertilizer recommendation: Experience of typology project in West Bengal, India*" at 4th Research Cooperators' Meet of International Plant Nutrition Institute (IPNI) – South Asia program organized by **Visva-Bharati University** during April 8-10, **2016**.
5. "*Photography for Development: Why and How*" at the Department of Agriculture and Rural Development, CSSM College, **Barasat State University**, West Bengal on 4 October **2016**.
6. "*Data Handling and Analysis by using software*" and "*Photography and Videography in Process Documentation*" at **Bihar Agricultural University, Sabour**, Bihar during 17-18 November, **2016**.

Training Programmes Attended

1. National level Facilitator Development Workshop of MANAGE, Hyderabad in collaboration with Ministry of Agriculture, GoI, held at SAMETI, Mashobra, Himachal Pradesh, India, during 14-19 April, **2010**.
2. Orientation Programme No. 111 at the UGC-Human Resource Development Centre, University of Calcutta, during 10 August – 8 September **2015**.
3. ICAR-sponsored Summer School on “New Age Extension Strategy for Communication Proficiency and Managerial Skill for Extension Professionals: Concept, Approach, Methodology and Application” at the Department of Agricultural Extension, Bidhan Chandra Krishi Viswavidyalaya, West Bengal during 7-27 September **2016**.