

ANNEX A BIODATA OF PRESENTERS AND RESOURCE PERSONS



Eliseo R. Ponce

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Personal Information

Birthplace	Malabuyoc, Cebu, Philippines
Civil Status	Married to Lucylen Beronilla Ponce (with two children)
Health	Excellent
Languages	English (excellent); Filipino (excellent) Bahasa Indonesia (some); & Spanish (some)

Areas of Expertise

- Governance of the agriculture bureaucracy; institutional restructuring, reforms, & development
- Agriculture research and extension management, policy, & advocacy
- Small-farmer/pro-poor agriculture development strategy; farmer-led extension
- Networking and partnerships with LGUs, NGOs, & private sector
- Program planning, monitoring, and evaluation

Education & Scholarships/Awards

- **Ph.D. Major: Agriculture Extension (Research and Statistics). Minor: Rural Sociology.** 1981, The Ohio State University (OSU), Columbus, Ohio 43210, USA; MA Major: Teaching Chemistry, UP Diliman, 1971; BS Agric. Educ. Major: Agric. Science & Math., ViSCA/VSU, 1964 (*2nd highest ranking*).
- **Awards and Scholarships:**
 - **Mt. Pangasugan Award, Visayas State University, ViSCA** , City of Baybay, 2008.
 - **Bai Matabay Plang Award of Distinction for Agriculture Research Management**, University of Southern Mindanao, Kabacan, Cotabato, 2002
 - **Alumni Achievement Award for Research Management**, Visayas State College of Agriculture (ViSCA) now Visayas State University (VSU), 1999
 - **Best Policy Paper**, National Academy of Science and Technology, 1997
 - **The Dean Memorial Award for Outstanding Staff Performance**, National Center for Research in Vocational Education. OSU, Columbus, Ohio, USA, 1980
 - **World Bank Scholar**, Ph.D., OSU, USA 1977-78
 - **Fulbright Educational Grantee Scholar**, USA, 1972
 - **SEARCA Graduate Scholarship**, UPLB, 1974
 - **NSDB Graduate Scholar**, Master's Degree, UP Diliman, 1969-70
 - **Shell Teacher Scholar**, UP Diliman, 1968-69
 - **Second Highest Ranking**, Bachelor's Degree, ViSCA/VSU, 1964

Work Experience

Dr. Eliseo Ponce has been a faculty member of the **Visayas State University (VSU)** from 1976 to June 2008. He has been a professor of Agriculture Research & Extension Management since 1990. During this period, Dr. Ponce has been engaged in teaching, research, extension, and consultancy work in the Philippines and other countries. The sections that follow detail his varied experiences.

As Scientist and Technical Expert

- **Senior Technical Expert, Agriculture Training Institute, Department of Agriculture.** Provides expert advice and serves as resource persons in seminars and workshops in the areas of organizational restructuring,

knowledge management, strategic planning, monitoring, and evaluation, 2008 to date.

- **Consultant, World Bank, Manila Office.** 15-man days spread from August to December 2010 as part of a 5-person team to assess Philippine agriculture as input to the Department of Agriculture's (DA) Agriculture & Fisheries Modernization Plan (AFMP).
- **Consultant, Congressional Committee on Agriculture & Fisheries Modernization (COCAFAM), Philippine Senate.** January to June 2010. Provided expert's services (policy notes, advice, resource person, draft bills) to the Committee in the area of institutional restructuring and reforms especially on agriculture research and extension.
- **Member, Independent Task Group, July 2009** (10 man days) to address the issue of the of the Independent Partnership Council in the Consultative Group on International Agriculture Research (CGIAR) system with the CGIAR Transition Management Team.
- **Subject Specialist (Agriculture), the Economic Policy Reform & Advocacy (EPRA),** September 2005 to August 2007, a USAID-funded project administered by the Ateneo de Manila University. Headed the team that provided technical advice to the Department of Agriculture in the restructuring of the Department per Executive Order 366, s. 2004; developed a framework of governance and operation of a decentralized agriculture services in Region 10 in conjunction with Civil Society Organizations (CSOs), Local Government Units (LGUs), and a university of agriculture; and developed partnerships with CSOs to strengthen their participation in agriculture policy development and advocacy.
- **Consultant, Asian Development Bank** through the **Southeast Asian Research Center in Agriculture (SEARCA)**, 3-months, spread from October 2006 to May 2007. Provided technical advice and support services to the Greater Mekong Sub-region (GMS) in the development and implementation of a Comprehensive Agriculture Strategic Plan (CASP) for the sub-region.
- **Visiting Senior Research Fellow,** Philippine Institute of Development Studies from 16 February 2003 to May 2005. Research focused on policy-oriented studies on improving the quality of governance of the agriculture bureaucracy. While at PIDS, he was also a part-time **Lecturer, Graduate School of Government, Ateneo University** since January 2004 teaching Rural & Agriculture Development.

- **Technical Expert, the Congressional Commission on Agricultural Modernization (Agricom), Philippine Congress, July 1996 to June 1998.** Provided technical advice to the commission and prepared policy papers on the problems and issues of agricultural education, research, and extension in the Philippines. Helped craft pertinent provisions of the agriculture modernization law including its Implementing Rules & Regulations (IRR) in the areas of human resource development, agriculture research and development, and extension.
- **Technical expert of the FAO/UNESCO/the World Bank/The Asian Development Bank.** Specific assignments included:
 - **ASEAN countries** (Indonesia, Vietnam, & the Philippines). International Expert in a regional study jointly undertaken by the FAO & the World Bank on the “Decentralization & Agriculture Service Delivery—Benchmarks, Transfers, & Capacity Building in Intergovernmental Relations” 54 man-days, 2003-2004.
 - **South Pacific Islands** (Tonga, Vanuatu, Solomon Islands, Cook Islands, and Fiji). Member of the Project Formulation Team on Root Crops Development for the South Pacific. Six weeks in 1989.
 - **Vietnam.** Member of a two-person Project Formulation Mission on agriculture research and extension. Three weeks in 1991.
 - **Indonesia.** Lead technical expert on “Improving the Delivery of Agricultural Extension Services” in the transmigration areas in the provinces of Aceh, Bengkulu, and Lampung. A total of 18 months spread over a four-year period from 1991 to 1995.
 - **Jordan.** Member of a UNESCO Project Formulation Team on Technical & Vocational Education. Four weeks in 1995.
 - **Bangladesh.** Assessed the delivery of agricultural extension services to irrigated rice farmers. One month in 1995.
 - **Syria.** Lead technical consultant on “Improving the Delivery of Agricultural Extension Services” in five pilot regions. Three months in 1995.
 - **Papua New Guinea.** Technical expert on project formulation mission. Member of a six-person technical assistance team to draft a proposal for the establishment of the National Agriculture Research Institute. One month in 1996.
- **Technical Expert, the Agriculture Education Program (AGRED), a European Union-funded project under EDPITAF, May 1995 to 1996 (in concurrent capacity as professor of ViSCA).** Worked with five Provincial

Technical Institutes of Agriculture (PTIAs) in the provinces of Aurora, Abra, Antique, Ifugao, and Misamis Oriental. Provided technical assistance in planning and implementing extension and outreach programs. Also served as the lead resource person in several computer-assisted training programs on management, planning, monitoring, and evaluation of extension programs.

- **Conducted 27 agriculture research and development projects** (mainly on sustainable/upland agriculture and small-farmer development) either as program or project leader at the Visayas State College of Agriculture (ViSCA) for period of 17 years (1981-1998). These projects dealt with various agriculture issues such as the role of local governments, women/rural youth in development, access to resources, technology needs, and community organizations.
- **Presented over 22 technical and scientific papers** in various professional national and international forums. Served as **resource person** in over 50 national and regional seminar workshops on various subject areas in agriculture and rural development. **Published 17 scientific, technical, and popular papers. Undergraduate Research Coordinator for Social Science**, ViSCA, 1982-1987.
- **Team Leader, Philippine Agriculture Extension Study and Technical Team (PAEST)**. Reviewed the Philippine agriculture extension system and assisted the Department of Agriculture (DA) to implement the recommendations to improve the delivery of agriculture extension services (World Bank and USAID-funded). 1987-90.
- **Member, Philippine Agriculture Study Team** that drafted the “Agenda for the Rural Sector” of the Department of Agriculture under President Corazon Aquino; provided the leadership in crafting the policies on agriculture research and extension (1986).
- **Graduate Research Associate**. The National Center for Research in Vocational Education. Columbus, Ohio, USA 43210. Work responsibility focused on the development of evaluation system for vocational education for the states of California, Colorado, Maine, and Alabama, 1978-1991.
- **Team Leader, “ViSCA Academic Mission to New Zealand and Australia.”** October 1982. **Member, “Philippine Socio-economic Mission to the People’s Republic of China.”** May-June 1976.

- **Team Leader of several community-based projects involving upland and lowland farmers** (funding from local and international agencies) included the Social Laboratory (1975-77), San Isidro Rural System's Development Project (1982-86), and the Integrated Root Crops Project (1989-92). These projects involved close working relationships with Local Government Units (LGUs), farmer/women/youth groups, and the private sector

As Research & Extension (RDE) Manager and Leader

Dr. Ponce has over twenty-five years of extensive administrative experience and leadership role in the areas of agricultural research, development/extension, and education.

Agricultural Research and Extension Management

- **Director, Bureau of Agricultural Research (BAR)**, July 1, 1998 to 15 February 2003; provided the overall intellectual and managerial leadership in implementing the reforms to strengthen the National Research & Development System in Agriculture & Fisheries (NaRDSAF) as mandated by the Agriculture & Fisheries Modernization Act (AFMA) of 1997. The major reforms focused on the following areas:
 - Consolidation and integration of the NaRDSAF under the principle of "one system, one program approach;"
 - Improving the quality of governance and accountability;
 - Improving the quality of science, research prioritization, and resource allocation;
 - Strengthening knowledge management in R&D including the establishment of the Agriculture & Fisheries R&D Information System (AFRDIS);
 - Developing active partnerships with farmers/producers, civil societies, and the private sector;
 - Strengthening the role the 30 Regional Integrated Agriculture/Fishery Research Centers (RIA/FRCs).

As Director of BAR, he served in various capacities of the following international research organizations:

- **Member, Consultative Group in International Agriculture (CGIAR), 1998-2002.** Attended annual meetings and served in various committees such as: **Member, Steering Committee, Change Management Team** to implement the reforms of the CGIAR as recommended by the External Review Panel in 1998; **Co-chair, Committee** to formulate the guidelines for the **Global Challenge Program**; and **National Organizing Committee Chair**, 2002 Annual CGIAR Meeting in Manila.
 - **Member of the Governing Board & Chair, Executive Committee**, The Asian Vegetable Research & Development Center (AVRDC), Taiwan, 2000-2002.
 - **President, Executive Council**, Commonwealth Agriculture Bureau International (CABI), England, 2001-2002
- **Director of Research and Extension (ODREx)**, ViSCA, 1988 to 1994. Responsibility included the planning and implementation of ViSCA's research and extension programs in agriculture and natural resources involving five research centers, 14 academic departments, the University Printing Press, the radio station, and the Experiment Station Development Unit. Instituted the following reforms to improve the college R & D function:
 - Output-oriented Staff Evaluation System
 - Institutionalization of the R & E Advisory Research Council
 - Integrated bottoms-up R & D planning and monitoring, and implementation
 - Providing a framework for effective RDE partnerships with the local governments, private sector, and non-governmental organizations.
 - Streamlining the recruitment and promotion on project-based personnel

Director, Visayas Consortium Agriculture Research Program (ViCARP), 1988-94 (in concurrent capacity as Director of ODREx); instrumental in simplifying the regional review and the processing of research proposals, strengthening the ViCARP Secretariat, increasing the membership and budget, and improving the secretariat's office and facilities.

Director, Center for Social Research in Small-Farmer Development (CSR), 1982-1992 (in concurrent capacity as ODREx director from 1998 to 1992); provided the leadership in organizing and developing the Center during its first decade of establishment. Pursued a vigorous institutional (staff and facilities) development program that made CSR the strongest social science research

center outside of Metro Manila and the University of the Philippines at Los Banos.

Director, Office of the Director of Extension (ODEx), 1981-82. Rationalized the extension services of the college and integrated the extension functions of all academic units of the college.

Coordinator, Community Extension Services, ViSCA, 1975-77. Organized the extension program of the college. Assumed leadership in the establishing community-based extension projects of the institution, which included distinct programs for rural youth and rural women.

Agricultural Education Management

Director of Instruction, ViSCA/LSU, 1981-86 (in concurrent capacity as Director of CSR). Instrumental in revising the GE and course requirements for all degree programs, instituting computer and practicum courses in all relevant degree programs, and organizing the college computer services.

Principal, Capiz and Agriculture and Fishery School. Provided leadership in implementing an innovative secondary agricultural curriculum as one of the eleven experimental agricultural schools under the World Bank Second Educational Loan to the Philippines. 1976-1977.

Head, Vocational and Technical Department, Sudlon Agricultural School, 1972-75. Instituted a nationally recognized supervised farming project for vocational agriculture students.

Leadership in Scientific and Civic Organizations

- **Lead organizer** of several national seminars and resource person of over 50 international/national/regional seminars and workshops. **Chair of the Philippine Organizing Committee of the Annual General Meeting** of the Consultative Group in International Agriculture (CGIAR), Manila, October 28-November 1, 2002.
- **Editorial Reviewer**, Philippine Sociological Review, 1987. **Member**, Philippine Root Crops Commodity Team, PCARRD. 1985-1986.

- **Chairman**, ViSCA Educational Foundation Inc., 1983 to 1995; **Board Member**, ViSCA Foundation for Agriculture and Rural Development, 1990-1994; **President**, ViSCA Personnel Association, 1987-1992; **Board Member**, ViSCA Community Church, 1983 to 1997

Affiliation/Membership in Professional Societies

Phi Kappa Phi

Gamma Sigma Delta

Phi Delta Kappa

American Vocational Association

UP Educational Alumni Association

Rural Sociological Society, USA

The Ohio State University Alumni

Ohio Vocational Association

American Educational Research Association

East-West Center Association

CURRICULUM VITAE

HALOS, Saturnina C. Ph.D (Genetics)

Address: 2027 Pleasant Village College, Laguna

Email: halos@mozcom.com Tel No. (049) 536-3224

Born: 02 May 1947 at Abulug, Cagayan, Philippines

Civil status: Married, 3 children

Current job: Free lance consultant

Executive Vice President, Arnichem Corporation

Educational Background

DEGREE	FIELD OF STUDY	INSTITUTION	YEAR
Ph.D.	Genetics	University of California Berkeley, California	1975
B.Sc. <i>Magna cum laude</i>	Agriculture (Plant breeding)	University of Philippines Quezon City, Philippines	1967

Job History

Consultant on Biosafety/Biotechnology, Bureau of Plant Industry, Oct 2004- date (2013)

Consultant on Biosafety & Biotechnology, ISAAA July, 2005 – Sept., 2012

Consultant on GM crop regulatory policy for Vietnam – USDA (Vietnam) Sept. 26-28, 2012

Consultant, COCAF 14th Congress of the Republic of the Philippines, April, 2009 – 2010

Consultant, UPNSRI Genetic Engineering, Laboratory, July, 1998-2008

Project Investigator, Philippine Institute of Development Studies, Makati, Philippines, 1986, 1998, Nov 15- Dec 31, 2004, April – May, 2005

Senior Project Development Adviser, Bureau of Agricultural Research 1999-2003

Consultant, Research Development Center, Rizal Technological University, Oct, 1996-2002, 2008- 2010

Consultant on Biosafety Capability Building, EMERGE Project Nov, 2004-Feb, 2005

Consultant on Biotechnology/biosafety, AGILE/EGTA Project July, 2002 - Mar, 2004

Technical Consultant, Philippine Council for Industry and Energy Research & Development, Dept of Science & Technology, Philippines, Oct 15 - Nov 30, 2004

Technical Consultant, FAO-RAP Project Vietnam, Oct 3-8, 2004

Technical Consultant PAWB-UNEP National Biosafety Framework Project 2003-2004

Consultant, Agricultural Commission (AGRICOM), Philippine Congress, May-Dec., 1997

June, 1998- May, 1999 Assoc. Prof. Biology Dept. College of Science, De La Salle Univ.

1997-98 Professor of Molecular Biology & Biotechnology, College of Science, University of the Philippines, Diliman

1996 Assoc. Professor of Molecular Biology & Biotechnology, College of Science,
University of the Philippines, Diliman
1985-1996, University Researcher, Natural Sciences Research Institute, University of the
Philippines, Diliman
1977-85 Chief, Science Res. Specialist, Forest Research Institute, Ministry of Natural
Resources
1975-77 Asst. Professor Institute of Biological Sciences, College of Arts and Sciences,
University of the Philippines, Los Banos
1972-75 Research Assistant, Dept. of Genetics, University of California Berkeley,
Berkeley, California
1967-1975 Instructor, Institute of Biological Sciences, College of Arts and Sciences,
University of the Philippines, Los Banos

Other services/contributions

Chair, Biotechnology Advisory Team Department of Agriculture, 2002-date (2012)
*The Biotechnology Advisory Team provides advice on policies and programs on
biotechnology to the Secretary through the Office of Policy & Planning. SCH has
provided technical advice and helped draft all GM crop regulatory policies issued
by the Department of Agriculture.*

Chair, Technical Committee on Applied Biotechnology Research, DA-PL480
Biotechnology Program, Dept. of Agriculture, 2001-2010
*The Technical Committee on Applied Biotechnology Research is responsible in
evaluating and recommending for funding and support and monitoring the
implementation of specific biotechnology projects deemed relevant to the
programs of the Department.*

Member, Philippine Delegation to the 11th APECATCWGRDEAB Meeting, Feb 21-25,
2008 Lima, Peru

Member, Philippine Delegation to the 10th APECATCWGRDEAB Meeting, Nov 5-12,
2006 Manila Philippines

Member, Philippine delegation, Extraordinary Meeting Conference of Parties, Cartagena
Protocol, Convention on Biological Diversity, Montreal, Canada, Jan 26-30, 2000

Member (Biotechnology), Secretary's Technical Advisory Group (STAG) Department
of Agriculture, 1999-2003
*The STAG undertakes policy studies and provides policy advice on various issues
in agricultural including the management of the Department to the Secretary.*

Honors, awards, and other forms of recognition:

2004 Awardee Outstanding Scientific Poster NAST Social Science Division, MM Tan, G
Calacal, FC Delfin, KA Tabbada, MP Tan, JC Ferreon, HB Perdigon, SCHalos,
MCA De Ungria. Population data of the 13 Philippine Regional Centers at 5 STR
Markers: A Look Into Our Genetic Diversity. Annual Meeting, NAST July 14-15,
2004

2004 Featured in "A Century of Women in the Health Sciences 1900-2000 AD" National
Academy of Sciences, National Institute of Health, University of the Philippines
Manila, Philippines

2003 Awardee Outstanding Scientific Paper Award National Academy of Science & Technology, Philippines: Paper de Ungria MCA Frani-Ferrer A Tabbada KA Magno-Tan MM Delfin FC Calacal GC Halos SC 2002 The Philippine genetic database of short tandem repeats (STR) in DNA-based paternity testing Philipp J Sci 131: 1-8

2002 DA-AGILE US Travel grant on biotechnology regulation Sept-Oct, 2002

2001 Awardee USDA FAS Cochran Fellowship US Study Tour on Biotechnology Sept-Oct 2001

2001 Participant, Salzburg Seminar Session 392 Biotechnology: Ethical, Legal and Social Issues Oct 14-21, 2001, Salzburg, Austria

2000 Awardee. Travel Grant to Thailand. International Service for the Acquisition of Agri-Biotech Applications, Oct10-15, 2000

2000 Finalist for the Presidency, Ramon Magsaysay Technological University, CHED

1999 Scientific Paper Awardee, University of the Philippines

1998 Finalist, PCHRD Outstanding Health Research Paper, Mar 17, 1998, DOST

1997 Postdoctoral Research Award, JSPS-DOST Program on the Breeder Sciences, Nov, Dept. of Anthropology, Faculty of Science, University of Tokyo, Tokyo, Japan

1996 Postdoctoral Research Award, JSPS-DOST Program on the Breeder Sciences, Jan 26-Mar 10, 1996, Dept. of Forensic Medicine, University of Tsukuba, Tsukuba, Japan

1996 Travel grant, PACC, Office of the President, Study Tour to Japan and the USA in connection with forensic DNA analysis, Aug. 21- Sept 8, 1996.

1996 Travel grant, Japan International Research Center for Agricultural Sciences, Ministry of Agriculture, Forestry & Fisheries, July 14-17, 1996

1996 Membership to the International Association for Plant Tissue Culture, 1995- 96 (IAPTC) Biotechnology Action Council, UNESCO

1995 Recipient Australian Aid Agency for International Development (AusAID)-NEDA Study Tour on Women in Science & Technology, March 22 to April 15, 1995

1994 Recipient Japan International Research Center for Agricultural Sciences (JIRCAS) Visiting International Research Fellowship-Ministry of Agriculture, Forestry & Fisheries (MAFF), Japan, October 12, 1993 to September 29,1994

1992 Recipient JSPS-DOST Cooperation Program with Southeast Asian Countries under the Core University System, October 26 to December 9, 1992, Tohoku University Sendai, Japan

1995 Recipient Outstanding REPS in Research, UP Diliman

1991 Recipient, GBF Training Grant in Industrial Biotechnology

1991 Recipient , Gregorio Y. Zara Award for Basic Sciences, Philippine Association for the Advancement of Science (PHILAAS)

1989 Recipient, Eusebio Y. Garcia Award in Molecular Biology, National Research Council of the Philippines (NRCP)

1985 Outstanding Research Paper, Los Banos Science Community

1981 Outstanding Researcher, Forest Research Institute

1979 Likas-Yaman Award for Research, Ministry of Natural Resources

1968-69 Japan Ministry of Education (Monbusho) Scholar

1967 Recipient, U.P. President's Pin for Outstanding Graduate Jake Gonzales Outstanding BSA graduate

1965 Gamma Sigma Delta Scholarship Certificate for Outstanding Sophomore

1963-67 Caltex (Philippines) Scholar, UP
1963 Entrance Scholar, UP

Publications (last 10 years only)

Ayson EGdJ, Cruz LC, **Halos SC** 2011. Selected reviews in Biotechnology: Livestock, Forestry and Fisheries. **Halos SC** & GP Ramon eds. International Acquisition for Agri-biotech Services (ISAAA) & Biotechnology Coalition of the Philippines (BCP), Quezon City, Philippines

Frederick Delfin, Jazelyn M Salvador, Gayvelline C Calacal, Henry B Perdigon, Kristina A Tabbada, Lilian P Villamor, **Saturnina C Halos**, Ellen Gunnarsdóttir, Sean Myles, David A Hughes, Shuhua Xu, Li Jin, Oscar Lao, Manfred Kayser, Matthew E Hurles, Mark Stoneking and Maria Corazon A De Ungria. 2010 The Y-chromosome landscape of the Philippines: extensive heterogeneity and varying genetic affinities of Negrito and non-Negrito groups. *European Journal of Human Genetics* advance online publication 29 September 2010; doi: 10.1038/ejhg.2010.162

Halos SC 2008. The Abaca. Department of Agriculture, Biotechnology Coalition of the Philippines & PhilRice. Quezon City, Philippines 188 p

Halos SC. 2008. The Bt corn approval for commercial use: a case study. IN: Straight talk on Biotechnology Pecson BD & AJ Manalo eds. Vol 1. Ateneo de Manila Univ Press. Manila Philippines

Halos SC. 2005. Addressing the environmental risks of modern biotech products In: Science-Based Reviews: Issues and Concerns of Modern Biotechnology Tecson-Mendoza EM ed. National Academy of Science and Technology (NAST) Philippines, Manila Philippines

Halos, S. AG La Viña, MS Lim & Mj Caleda eds. 2004. Developing the National Biosafety Framework for the Philippines. Dept. of Environment and Natural Resources-Protected Areas and Wildlife Bureau. Quezon City Philippines

Halos, SC 2004 Agricultural Biotechnology Research and Development in the Philippines: The Need for a Strategic Approach In: Special Issues in Agriculture Ponce ER ed Philippine Institute for Development Studies Makati City Philippines

Halos, SC 2004 .Medicinal uses of selected fruit trees and woody perennials. *J Tropical Medicinal Plants* 5:265-270

Perdigon HB, GC Calacal, KL Co Seng, **SC Halos** MCA De Ungria. 2004. Evaluation and in-house validation of fice extraction methods for PCR-based STR analysis of bloodstained denims. *Science Diliman*. 16: 37-48

Miranda JJ, **Halos SC** 2004 STR polymorphism in Philippine ethnolinguistic groups: evaluation of forensic utility *J Appl Genet* 45: 87-94



Dr. Zhongjin Lu

Vice President, Product Development
Arcadia Biosciences

Dr. Lu has 30 years of experience in agronomy, crop genetics and breeding, plant stress physiology, and agricultural biotechnology.

Prior to joining Arcadia Biosciences, Dr. Lu was Director of Plant Breeding and Senior Scientist at Seaphire International Inc., a seawater-based agricultural company in Arizona, where he led R & D programs for genetic improvement of *Salicornia bigelovii* as a halophytic oilcrop grown on coastal deserts irrigated with full-strength seawater. During this time, two salicornia cultivars (cv. SIS 1 and cv. SIS 2) for seawater agriculture were released by the USDA PVP Office, and five elite lines were developed for saline land irrigated with brackish water. Prior to Seaphire International, Dr. Lu was with the Monsanto Company where he was responsible for the project of salicornia genetic improvement for saline agriculture. Through the program, more than two thousand genetic accessions in *Salicornia bigelovii* collected from the wild in North America were systematically characterized, which served as foundation of the salicornia gene bank. Dr. Lu also spent nearly ten years with the Jiangsu Academy of Agricultural Sciences (JAAS), China and worked in all aspects of *Brassica*, including genetics, breeding, physiology, agronomy, and product quality. While with JAAS, Dr. Lu developed multiple apetalous OP and hybrid canola lines characteristic of high-yielding, high-oil content and resistance to *Sclerotinia* diseases. He attained several scientific achievements authenticated and awarded at both provincial and national levels.

Dr. Lu is the named inventor on four patents (two in China and two in the U.S.), and is the author of more than 70 peer-reviewed scientific papers and book chapters. Dr. Lu holds an M.S. in Plant Genetics and Breeding from the Nanjing Agricultural University, China and a Ph.D. in Plant Physiology from Technion – Israel Institute of Technology.

GODILANO, ESTEBAN C., PH.D.

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Contact address:

Y2K Mt. Data Street
Umali Subdivision
Los Baños, Laguna, Philippines
Postal Code: 4030
Mobile Phone: 09997187586

Date of Birth: 7 June 1954

Citizenship: Filipino; Status: Married
Dependents: Nerissa, Banjie, Estelie,
and Angelica

Objective

Sustainable agriculture and natural resource development and management in partnership with the NARs, NGOs, and LGUs. Identifying rural development strategies that promote livelihood, food and water security, and local governance, likewise incorporate environmental concerns in development projects, applying interdisciplinary and participatory approaches to ANR programs; using space technology and environmental modeling.

Education

1994–1998 (Ph.D.) Cornell University, Ithaca New York, USA

- Major Field: Environmental Information Science (using space technology as tools in planning)
- Minor Fields: Natural resource policy and management, rural and environmental sociology, international agriculture, and sustainable development.
- CIIFAD-CFTU-IRRI Scholar, and Graduate Research and Teaching Assistant.

1988-1990 (M.Sc.) Asian Institute of Technology, Bangkok, Thailand

- Major Field: Interdisciplinary Natural Resources Development and Management
- Minor Fields: Land use planning and soil science
- IRRI-ADB-Japan Scholar, and Graduate Teaching Assistant

1971-1975 (B.Sc.) Central Philippines University, Iloilo City, Philippines

- Major Field: Agronomy (crop production)
- Minor Field: Agricultural Education and Extension
- University Scholar, and working student

Present Job and Responsibilities

Work Experience

January 2010 to Present, Philippines

Position: Technical Adviser: Climate Change

- Provide technical advice/expert opinion in the Department's Climate Change policies and framework/strategies development.

- Identify and evaluate available technologies/tools for climate change adaptation and mitigation, to include but not limited to, Remote Sensing (RS) and Geospatial Information Systems.
- Provide technical advice for the general application of RS and GIS technologies in the:
 - a) Identification of Strategic Agriculture and Fishery Development Zone (SAFDZ)
 - b) Assessment of SAFDZ's climate change vulnerability
 - c) Development of climate change adaptation and mitigation measures
 - d) Formulation of disaster risk reduction and management plans
 - e) Relevant programs and projects of the Department, among others.
- Provide technical inputs in position/discussion papers development and presentation materials preparation on climate change vis-avis RS and GIS application projects and programs.
- Assist in the formulation and conduct of IEC programs on climate change
- Perform such other functions as may be assigned.

March 2010 to Present, Philippines

Position: Board Member: Climate Change Congress of the Philippines

- Implement scientific analysis of climate change impacts in the Philippines
- Assist Climate Change Congress in the formulation of the National Framework Strategy on climate change
- Assist Government agencies in formulating their mandate towards climate change impacts.
- Assist the Mining Industry Coordinating Council in Mapping "no go zone" in compliance of E.O 79 on mining reforms.

January 2008 to Present ECGIS Mapping and Consulting, Philippines

Position: President and CEO

- Develop project proposal for both and local international client
- Implement RS/GIS and EIS project
- Write consultants TOR
- GIS, GPS, and Remote Sensing mapping and capacity building
- Oversee project implementation
- Served as consultant and resource person to NARs, SUCs, LGUs, DA, DPWH, NEDA, and DENR

June 2008 to 2009 Department of Agriculture, Philippines

Position: RS/GIS Senior Technical Adviser

- Develop RS/GIS project proposal for local and international funding
- Strengthen the capacity of DA regional units for geospatial software and hardware technologies for research, development and extension;
- Improve and upgrade DA regional facilities with the provision of state-of-the-art technologies such as GIS, RS, and GPS;
- Generate and update thematic maps and information in agriculture and fisheries;
- Communicate results through production of crop suitability maps, campaign caravan, publications, and electronic communication strategies;

- Provide an avenue for information exchange in the application and utilization of geographical information systems in agriculture and fisheries planning, and;
- Strengthen the capability of the DA in the application and utilization of geospatial technology for effective and efficient information exchange between government agencies and their clientele.

January 2005 to May 2008. Mekong River Commission Funded by the Asian Development Bank (Lao PDR, Thailand, Vietnam, and Cambodia)

Position: Team Leader

- supervise the mapping of the Tonle Sap Environmental Management Project using RS/GIS and GPS
- trained local counterpart on the science and implementation of RS/GIS/GPS technology in resource planning and management.
- developed resource books and training manual on geospatial technology
- developed farming systems technologies at the watershed scale
- implement climate change impact mapping a poverty mapping
- developed project proposal on integrate watershed management

February 2001 – December 2004 (Part Time) Bureau of Agricultural Research, Philippines

Position: Senior Technical Adviser for ICT, KM, and GIS

- project proposal preparation and evaluation in ANR for the Philippines food security and poverty alleviation programs;
- institutional and human resource development related to ANR;
- establishing DA-BAR RS/GIS laboratory and capacity building of its NARS- LGUs, and SCU's member institutions;
- implement RS/GIS application in ANR;
- develop training manuals and resource books for RS/GIS application in ANR;
- assist the DA-BAR in modernizing its ICT and Knowledge Management Division and partner institutions;
- review research and development proposals related to food security, ANR, and RS, GIS, ICT, and KM;
- coordinate the establishment of the GIS/IP facilities in agricultural research centers of the Philippines;
- develop suitability map of various crops using GIS technology.
- establish; develop the framework, and protocol of the DA GIS Network, its attached Bureaus and Agencies;
- establishment of the DA spatial data infrastructure and a GIS enabled database for ANR;
- convergence mapping and project prioritization of the Department of Agriculture, Department of Environment and Natural Resources, and Department of Land Reform; and
- crop suitability and investment mapping using GIS Technology for the Philippine Agriculture 2020 Master Plan.

February 2001 –Nov 2003 (Part Time) SAMEO SEARCA, Philippines

Position: GIS Consultant and NRM Technical Adviser

- establishing SEARCA RS/GIS laboratory;
- implement GIS/RS project on agriculture and natural resources

- assisted various projects in mapping and surveying
- capacity building of SEARCA RS/GIS staff and regional centers;
- agricultural project formulation, evaluation, and implementation of project proposals for sustainable ANR at the regional level;
- capacity building of regional partners in using RS/GIS for ANR;
- review all GIS and ANR related proposal of NARS in the different countries; and
- write project proposals for donor institutions and funding agencies (local and international).

September 1998 to Jan 2001 International Rice Research Institute, Philippines

Position: Scientist

- developing a protocol for poverty mapping in Bangladesh and India by integrating the biophysical, socioeconomic and policy data in identifying incidence and intensity of rural poverty;
- conducted research on climate change analysis and vulnerability mapping,
- analyzing multi-temporal satellite images of the irrigated rice ecosystems of Nueva Ecija, Province, Philippines, and relating results to socioeconomic variables, statistics, and degradation of natural resources;
- applying the capabilities of geographic information and technology in research monitoring, evaluation, risk assessment, and policy analysis;
- organizing training, teaching seminar courses and giving lectures at the University of the Philippines, Los Baños campus; and
- writing project proposals, reports, and scientific papers.

1994-1998 Cornell University, USA

Position: Scholar, Graduate Researcher, and Teaching Assistant

- developed Cornell University geospatial database for CFTU Philippines;
- teaching assistant for three resource inventory and RS/GIS courses in the department Soil, Crops, and Atmospheric Sciences;
- developed a framework for community-based watershed management in tropical uplands;
- incorporated environmental concerns using RS/GIS technology in policy recommendations and project implementation; and
- conducted research projects in NRM, land evaluation, land use planning, and climate change impact mapping using geospatial technology.

1990–1994 International Rice Research Institute, Philippines

Position: Assistant Scientist, GIS/IP lab Manager

- established and manage the institute GIS/IP laboratory;
- developed the methodology for technology extrapolation domain using GIS;
- co-developed the methodology for agroecological mapping of the rice-growing environment;.
- RS/GIS and farming systems adviser, Phil. Department of Agriculture.
- conducted training courses in RS/GIS for the NARS;
- developed training manuals in using GIS for agricultural research;
- developed project proposals and conduct project evaluation for the NARS; and
- writing of project proposals and scientific papers.

1988–1990 Asian Institute of Technology, Thailand

Position: Scholar and Graduate Assistant: IRRI-ADB-Japan scholar

- specialized in interdisciplinary approaches to natural resource planning development, and management using space technology;
- integrated the use of RS and GIS for natural resource planning and management;
- conducted NRM, land use planning and management in the deepwater rice ecosystems of Thailand;
- assisted in RS/GIS laboratory instructions and project development; and
- training assistant in using GIS and RS for natural resource management.

1983–1988 International Rice Research Institute, Philippines

Position: Senior Research Assistant

- coordinated the World Bank project on institutional and agricultural development for the Philippine Department of Agriculture;
- farming systems specialist in a multidisciplinary team in the Asian Rice Farming System Network (ARFSN);
- helped establish the crop-livestock research and extension methodology;
- helped develop methodologies for farming systems research in the ARFSN.
- coordinated farming systems research and extension in the NARS;
- conducted and coordinated research on varietal testing of upland crops in the various rice ecosystems in South and Southeast Asia
- conducted training courses in farming systems and developed training manuals;
- writing of project proposals and scientific papers.

1976–1983 International Rice Research Institute, Philippines

Position: Research Assistant

- conducted variety trials of upland crops for intensive rice-based systems;
- seed production and distribution of upland crop varieties for the NARS in the ARFSN member countries;
- coordinated variety testing of upland crops in the NARS;
- conducted training courses in multiple cropping systems; variety trials, and
- writing of project proposals and scientific papers.

1975-1976 University of the Philippines at Los Baños, Philippines

Position: Research Assistant and Project Leader

- in situ gene bank maintenance and characterizing of Banana plantain;
- characterizing and propagating of various fruit tree species; and
- assisting laboratory courses in plant propagation.
- attend to MSc course on Horticulture (18 units completed)

Selected papers related to space technologies and climate change

Godilano, (2012). Climate Smart Agriculture from Ridge River to Reef. The Philippine Strategy for Climate Change Adaptation and Mitigation. Paper presented to the 2nd Global Conference on Agriculture, Food Security and Climate Change: “Hunger for Action”. September 3 – 7, 2012 in Hanoi, Vietnam. Co-organized by Vietnam and the Netherlands, in close collaboration with other partners, including FAO and the World Bank,

- Godilano, (2012). A disaster waiting to happen. The case of Philex Mining in the Philippines. *In*. Ravaged: Philippine Environmental Woes: Case Studies on Philex and Tampakan Mining. Published by the CBCP and NASSA. ISBN 978-971-9555-0-3. 2012.
- Godilano, (2012). To Mine or Not to Mine: The Case of the Tampakan Copper-Gold Project. *In*. Ravaged: Philippine Environmental Woes: Case Studies on Philex and Tampakan Mining. Published by the CBCP and NASSA. ISBN 978-971-9555-0-3. 2012.
- Godilano, (2012). Watershed management framework for climate change adaptation and mitigation: An approach for food and water security. Paper presented to the APEC Symposium on Climate Change: Adaptation strategies with mitigation potentials for food and water security. EDSA Shang-rila Hotel. Metro, Manila Philippines. February 6-8, 2012.
- Godilano, (2011). Farmers' Organizations in Climate Change Adaptation and Mitigation. Research paper presented to the 2nd Sub-regional Policy Workshop to support farmers organizations in climate change mitigation and adaptation: Southeast Asia plus China.. GCP/RAS/249/IFA, IFAD Medium Term Cooperation Programme with Farmers' Organizations in the Asia-Pacific Region – Pakse, Champasak , Lao PDR. 27 November – December 1, 2011
- Godilano, (2011). The Philippine Experiences, Opportunities, and Challenges on Integrated Greenhouse Gas Emission and Sink Analyses. Presented to the Global Research Alliance on Agricultural Greenhouse Gases. First Meeting of the Inventories and Measurement Cross-Cutting Group of the Global Research Alliance, November 7, 8, 9 & 10, 2011. Hilton Lac Leamy, 3 Casino Blvd. Gatineau, Quebec, Canada.
- Godilano, (2011). The Philippine experience, opportunities, and challenges on greenhouse gas inventory. Presented to the Global Research Alliance on Agricultural Greenhouse Gases. First Meeting of the Inventories and Measurement Cross-Cutting Group of the Global Research Alliance, November 7, 8, 9 & 10, 2011. Hilton Lac Leamy, 3 Casino Blvd. Gatineau, Quebec, Canada.
- Godilano, (2010). Climate Change: Threats, challenges and opportunities for sustainable water supply. 3rd Southeast Asian Water Utilization Network (EAWUN) Convention 2010. "Water and Sustainability Strategies and Best Practices. December 1-3, 2010. Marriot Hotel, Metro Manila, Philippines.
- Godilano, E.C. (2010). Presented to the consultation on "Charting Our Water Future: A Multi-Stakeholder Policy Program Dialogue". Northern and Southern Mindanao: June 7-8, June 10-11 Cagayan de Oro, Mindanao; Northern and Central Luzon, and Southern Luzon: June 15-16, June 17-18 Clark Pampanga; :Visayas: and June 2-3 Tagbilaran, Bohol.
- Godilano, E.C. (2010). Fairness in a fragile world Government-Civil Society National Interface on Climate Change (A National Synthesis). Seminar paper presented to the Climate Change Commission National Conference. Sulo Hotel Quezon City Philippines> 12 April 2010.
- Godilano, E.C. (2010). Spatial impacts of climate change in the Philippines: Implications to agriculture and rice production. The 23rd National Rice R&D Conference: "Addressing Climate Change thru Rice Science". Umali Hall, The International Rice Research Institute, Los Baños, Laguna Philippines. March 3-5, 2010.
- Godilano, E.C. (2010). Mapping Climate Change in the Philippines: Adaptation and Mitigation Strategies for Local Governance. The 35th National Social Action General Assembly (NASAGA) Elijah Spirituality Center, Immaculate Heart of Mary Seminary Complex, Tagbilaran City. 23 February 2010.

- Godilano, E.C. (2010). Mapping climate Change in the Philippines: Impacts on Agriculture and Poverty: Strategies for Adaptation and Mitigation. Paper presented to the Climate Justice, Poverty and Human Rights: A Governance Dialogue. Venue: UP SOLAIR, E. Jacinto St., UP Diliman, Quezon City Date: Thursday, 17th December 2009
- Godilano, E.C. C. Resoli, and D. Handrill. (2008). GIS Component. Environmental Animal Health Management Initiative. Independent External Evaluation. FAO Project No. GCP/PHI/050/ITA. Bureau of Animal Industry, Philippines. April 2008.
- Godilano, E.C. and S.R. Obien. (2008). Dryland Agriculture in the Philippines, A consequence of Global Warming: Challenges and Opportunities. Plenary paper presented to the Philippine National Dryland Agriculture Conference sponsored by the Bureau of Agricultural Research, Department of Agriculture. Clark Airbase, Philippines. April 16-18, 2008.
- Godilano, E.C. 2008. Forest Land Use Plan Using Integrated Watershed Management Approach. Paper presented to the Municipality of Sane Vicente, Palawan Province Philippines. March 14, 2008. Palawan.
- Godilano, E.C. (2007). Implementing Community-Based Natural Resource Management and Sustainable Livelihood Program in the TSBP. In support to the three steps to success. FIA Guide to realigning the approach to implementation: Focusing in Integrated Fishery and Agricultural Resource Management Program. FIA, Phnom Penh: Cambodia.
- Godilano, E.C. (2006). Implementing GIS in Integrated Fishery and Agricultural Resource Management. Training Manual developed for the Department of Fishery, Ministry of Agriculture, Forestry, and Fisheries. Tonle Sap Environmental Management Project: GIS Services and Capacity Building. ADB Loan No. 1939-CAM (SF). Kingdom of Cambodia. June 2006.
- Godilano, E.C. 2006. Philippine Agriculture and Map Atlas on Crop Suitability and Investment using GIS Technology. GIS analysis and publication submitted to the Phil Agriculture 2020 Master Plan. Department of Agriculture, Bureau of Agricultural Research. January 2006.
- Godilano, E.C. 2005. Biofuel suitability and investment map in the Philippines using GIS technology. Paper presented to the 2005 Philippine ESRI GIS User Conference. 42nd Floor Discovery Suites, ADB Avenue, Ortigas Center, Pasig City. October 11-12, 2005.
- Godilano, E.C. 2005. Space technology in disaster prediction, management, and social mobilization. Paper presented to the National Disaster Coordinating Council command conference. NDCC, Camp Gen. Emilio Aguinaldo. Quezon City. January 18 2005.
- Godilano, E. C. and J. Bennet. (2004). Capitalizing on new technologies for improving crop water productivity: Space technologies, short and long-term weather forecasting. In Press: Journal of Environment & Development. Graduate School of International Relations and Pacific Studies. University of California at San Diego, USA.
- Godilano, E. C. (2004). Saving Water with appropriate cropping systems in irrigated rice environment using GIS technology. Paper presented to the DA-BAR Executive Committee and Consultants. DA-BAR CERDAF Conference Room. 7 June 2004.
- Godilano, E. C. (2002). Implementing GIS at Philrice: Application in rice science. Paper presented to the 15th National Rice R and D Conference. PhilRice Central Experiment Stations, Maligaya, Science City of Muñoz, Nueva Ecija. April 10-12, 2002.
- Godilano, E. C. (2002). Geographic information systems technology in local governance and economic development. Plenary paper presented to the Visayas conference on "GIS a catalytic tool for economic development: Are LGUs ready for it? Cebu plaza Hotel. Cebu City. 24-25 September 2002.

- Godilano, E. C. et. al., (2000). Spatial analysis of rural poverty and environmental vulnerability: the case of Bangladesh. Paper presented to the 5th GISDECO Conference. The International Rice Research Institute. Los Baños, Laguna, Philippines. 2-3 November 2000.
- Godilano, E. C. and S. D. deGloria. (1999). Community-based spatial analysis framework in watershed: application to mountain ecosystems management. Paper presented to the first national conference on the science and management of mountain ecosystems. 27-28 May 1999. Mt. Makiling. University of the Philippines at Los Baños, Philippines.
- Godilano, E. C. (1998). Spatial analysis framework for a community based watershed management in the tropical uplands. Ph.D. Dissertation. Cornell University, Ithaca, New York.
- Godilano, E. C. (1993). Application of GIS in agricultural research. In Asialand workshop on interpretation of data for field experiments on upland soils. IBSRAM Technical Notes. No. 6, pp 67-101.
- Godilano, E.C. E. Lukens and E. Apisit. (1989). Application of remote sensing and GIS for integrated resource planning of the deepwater rice areas, Central Plain, Thailand. Paper presented to the 10th ACRS, Kuala Lumpur Malaysia, Nov. 22-29, 1989.

Resource Books

1. Geospatial Information Systems: Volume I: Geographic Information Systems. ISBN971 704 021 5
2. Geospatial Information Systems: Volume II: Understanding Earth Surfaces. ISBN 971 704 022 5
3. Geospatial Information Systems: Volume III: Understanding Remotely Sensed Data. ISBN 971 704 022 3
4. Implementing GIS in Agriculture with emphasis on agricultural research and development and protocol in establishing a GIS laboratory
5. Philippine Agriculture and Crop Suitability Atlas and Investment Maps using GIS technology
6. Description of Major Satellite Platforms, RS Processing, and Sources of Satellite Imagery for the Tonle Sap Environmental Management Project. Cambodia.
7. Global Warming Consequences in the Philippines. Challenges and Opportunities for Philippine Agriculture. Consultancy output and policy paper presented to the Secretary of Agriculture Philippines. April 2009.

Resource Manual Developed

1. Using GIS Technology in Statistical and Data Integration: Poverty Mapping for Agriculture and Natural Resource Development. The training manual combines the use of ArcGIS and MS Excel Statistical Functions to analyze maps and databases.
2. Implementing Geographic Information Systems in Agriculture and Natural Resources. The training manual contains the following: Using ArcView 3.2, Spatial Analyst, 3D Analysts, GIS-GPS integration, Map Accuracy Testing, and Migrating to ArcGIS 9.
2. Implementing Remotely Sensed Data in Agriculture and Fisheries Research and Development: Training Manual Using ArcView Image Analyst. Version 2 is being developed that will use the ENVI RS software.
3. Database management for GIS Application: Using Microsoft Access Environment.
4. Community Fisheries Participatory Mapping and 3-D Modeling Using GIS Technology.
5. Community Interactive Participatory GIS Mapping, Kingdom of Cambodia.
6. Implementing Community Area of Responsibility Mapping (CAR) using RS/GIS. Kingdom of Cambodia

7. GIS Technology in Integrated Fishery and Agriculture Resource Management (i-FARM). Kingdom of Cambodia
8. Spatial and Statistical Data Integration in Poverty Mapping for Natural Resource Management Using GIS Technology. A methodology and training manual Kingdom for Cambodia
9. Mapping Community Fisheries Area Management Plans and Matching Livelihood Opportunities in TSB. Fishery Administration: Phnom Penh Cambodia: March 2007.
10. Using GIS Technology in Statistical and Data Integration. Philippine Department of Agriculture. Information Technology Center for Agriculture and Fisheries. December 2008.

Language: Excellent in speaking and writing in English, Filipino, Hiligaynon, Kinaray-a Ilocano, and Cebuano Good comprehension in Spanish and French.

Crops work with: Coconut, sugarcane, banana, citrus, mango and other tropical fruit trees and plantation crops of commercial value, lowland and upland rice, corn, sorghum, wheat, peanut, soybean, mungbean, ricebean, blackgram, cowpea, chickpea, pigeon pea, sweet potato, potato, cassava, *J. curcas*, and strawberries.

Livestock work with: Small holder production of: Cattle, Buffalo, Goats, Swine, and Poultry

Countries work with: Philippines, Thailand, Bangladesh, Indonesia, Cambodia, India, Pakistan, Nepal, Lao PDR, Honduras, Vietnam, Honduras, Nicaragua, El Salvador, Nigeria, and United States of America.

Softwares use: ARCInfo, ArcGIS, ArcView, IDRISI, ERDAS Imagine, ERMapper, ENVI, MapInfo, GeoMedia, GPS Geoexplorer, IDRISI, Pfinder, MsWord, Excel, Dbase IV, ACCESS, Power Point, Harvard Graphics, Photo Shop, IRRISat., Minitab.

Academics: Adjunct Professor: University of the Philippines: Los Baños Campus. College of Public Affairs: Institute of Strategic Planning and Policy Studies

Consultancy

International

Listed as International Consultant to the Following Consulting Firms:

WB, ADB, Nippon Koie, Black and Veatch, CTI Engineering Inc., HAZAL-Australia, Marsman-Drydale Group, Halcrow-London, SIDA-Sweden, JICA-Japan, CIDA-IDRC Canada, ACIAR-Australia, , CamConsult in Cambodia, Marsman Drydale, Berkman International Consulting, KOICA, Abundant Biofuels, USA, and Carl Bro in Denmark.

GIS and Remote Sensing Expert: ADB TA-8111 PHI: Climate Resilience and Green Growth in the Upper Marikina River Basin Protected Landscape: Demonstrating the Eco-town Framework (46225-001). January 2013 to December 2014.

Remote Sensing Specialist: Developed research paper on the Application of Remote Sensing and GIS Technology on Crops Productivity among APEC Economies. P. R. China. January to July, 2012.

Watershed Management Specialist: Developed research paper on watershed management for the APEC Symposium on Climate Change: Adaptation strategies with mitigation potentials for food and water security. October 2011 to February 2012. Philippines.

Climate Change Specialist: Developed research paper on Green House Gas Research Alliance on Agricultural Greenhouse Gases. Quebec, Canada. August to December 2011.

Climate Change Specialist: GCP/RAS/249/IFA, IFAD Medium Term Cooperation Programme with Farmers' Organizations in the Asia-Pacific Region. September to December 2011. Bangkok, Thailand.

GIS Specialist: Independent External Evaluation: FAO Environmental Animal Health Initiative Project. Bureau of Animal Industry. Department of Agriculture. Vietnam, Lao PDR and Philippines. (April-May 2008).

Team Leader: Biofuel Enterprise and Systems Technologies for Indigenous Peoples (BEST4IPs). A feasibility Study (Feb to Mar 2008) to establish *Jatropha curcas* plantation in Mindanao covering 50,000 ha. Client: Abundant Biofuels Corporation, Monterey, California, USA.

Team Leader: Asian Development Bank. Kingdom of Cambodia. Tonle Sap Environmental Management Project: Expansion of GIS Services and Capacity Building (ADB Loan No. 1939-CAM (SF). October-April 2007.

Team Leader: Asian Development Bank. Kingdom of Cambodia. Tonle Sap Environmental Management Project: GIS Services and Capacity Building (ADB Loan No. 1939-CAM (SF). January-July 2006.

GIS and Database Specialist: CTI Inc., Halcrow, and Woodfields Consultant Inc. Master Plan for the Agusan River Basin Project. September to December 2005.

GIS Consultant: IRRI-PBGB. Developing a paper on: "Capitalizing on new technologies for improving crop water productivity: space technologies, short and long-term weather forecasting". March-June 2004.

GIS Expert and Technical Adviser: The International Institute of Tropical Agriculture (IITA) Ibadan, Nigeria. June 2004.

Technical Adviser and GIS Specialist: Diversified Farm Income and Management Project: HAZAL-Australia and SDS-Philippines: (June-Oct. 2003)

GIS Specialist: Bicol River Basin watershed management project: Orient Consultants Inc., Binnie Black and Veatch, and Nippon Koei: June-Dec 2002.

Technical Adviser and Consultant: The International Rice Research Institute: Asian Rice Farming Systems Network on the following fields: varietal screening of upland crops, farming systems, poverty mapping, space technology capacity building in the ASEAN Countries including, Bangladesh, Sri Lanka, Pakistan, and India. 1980-1994 and 1999-2000.

Technical Adviser and Trainer: Land use analysis and planning, and Geospatial analysis of the Central America Ecosystems. Under the Cornell International Institute of Food and International Agriculture Development (CIIFAD) covering the following countries: Honduras, Nicaragua and El Salvador (two weeks each during the winter in 1996, 1997, and 1998).

Agronomist and Farming Systems Consultant: World Bank Project in three integrated development areas, creating the Regional Integrated Agricultural Research Systems (RIARS), and establishing the Regional Integrated Agricultural Research Centers (RIARC) in fourteen regions of the Philippines. 1982-1990.

Local

GIS and Mapping Expert. Characterizing Water Governance in the Philippines (Laguna, Benguet, and Iloilo) . College of Public Affairs and Development. University of the Philippines Los Baños, College, Laguna. January 2013 to December 2013

GIS and Agricultural Expert: Formulation of local climate change action plan. College of Public Affairs and Development. University of the Philippines Los Baños, College, Laguna. January to June 2013

Team Leader and GIS Expert: Mapping the impacts of climate change to the communities within the Cagayan de Oro River Basin and Iponan Watershed. January 2013 to December 2013

GIS and Watershed Expert: Toward Good Water Governance for Development (Emerging Interdisciplinary Research Program), College of Public Affairs and Development. February 2013- December 2013.

Technical Adviser: Philippine Navy Environmental Management and Climate Change Program on Adaptation and Mitigation. January 2012-December 2012.

Senior Technical Adviser: Department of Agriculture Climate Change Office. January 2012 to December 2012.

Senior Technical Adviser: Department of Agriculture Climate Change Office. January 2011 to December 2011.

Senior Consultant and Board Member. Climate Change Congress of the Philippines. June 2009 to December 2011.

Consultant: Climate Change Commission of the Philippines. KRAs on Food security and water sufficiency. January 2011 to December 2011.

Project Director and RS/GIS Specialist: Unified and Enterprise Geospatial Information Systems for Agriculture and Fisheries. Philippine Department of Agriculture. January to December 2009.

Team Leader and Land use Planner: Comprehensive land use planning of local government. Municipality of San Vicente, Palawan Province. September to December 2008.

GIS Consultant and Technical Adviser: Department of Agriculture. Information and Technology Center for Agriculture and Fisheries (ITCAF). Philippines. February 2008 to July 2009.

Project Director and Senior Consultant. Global Tenets Consultancy. Philippines. June 2007 to Present. Conduct EIA Studies for Nickel Mining and developed rehabilitation plans for mined-out areas.

Team Leader. Integrated watershed rehabilitation and management program (IWRM) and geohazard risk for nickel mining. TERRA Concepts Inc. Unit 3 North Mall, Agapita Complex. Lopez Ave. Batong Malake, Los Baños, Laguna, Philippines. August - September 2006.

Technical Adviser: Terra Concepts Inc. Agrarian Reform Beneficiaries Agribusiness Entrepreneurship Development Program. Project covering 3, 7, and 2 Municipalities in the Provinces of Sorsogon, North and Eastern Samar respectively. November 2005 to February 2006.

GIS Specialist and Technical Adviser: GTConsult. Inc. Sibuyan Nickle project: Initial environmental examination. September to December, 2005.

Senior Technical Adviser and GIS Expert: DA-BAR: Capacity building and GIS infrastructure development: Jan 2001-Dec. 2005

Technical Adviser and GIS Consultant: National Mango Action Team: Oct. 2003-Dec 2004.

Technical Adviser and GIS Consultant: Geographic targeting of solid waste management in the Philippines: DENR: Mar-Dec 2004.

Technical Adviser and GIS Consultant: Geodata Inc, and DENR: Disaster prediction and management: Jan 2004-June 2004.

Technical Adviser and GIS Consultant: NEDA Region II: Capacity building and establishment of the GIS infrastructure: Jan 2004 – July 2004.

Technical Adviser and GIS Consultant: NEDA Region 5: Capacity building and establishment of the GIS infrastructure: June 2003 – Dec 2003.

Technical Adviser and GIS Specialist: UPLB-FI and CPAF-SPPS: Technology characterization using GIS technology. July 2002-Feb. 2004.

GIS Consultant and Adviser: Municipality of Montalban and Terra Concepts Inc.: Establishment of the Mango Estate. Oct 2003 – Nov 2004.

Technical Adviser and GIS Consultant: Governor Yap of Tarlac: Establishment of the Mango Estate. (Sept 2003-Feb-2004).

GIS Consultant: Marsman-Drydale Group: Precision Agriculture. (Oct. 2004-Dec 2004)

Technical Adviser and GIS Consultant: PhilRice: GIS capacity building and establishment of the Open Academy for Phil. Agriculture. Jan 2004-Dec 2007.

Technical Adviser and GIS Consultant: Congressman Charlie Cojuanco District 4 Negros Occidental: Land use planning and tax mapping: Oct. 2003-April 2004.

Technical Adviser and GIS Consultant: DA-Field Operation and Services: Establishment of the AFGIS Network: October 2003-Dec. 2006.

GIS Specialist. Woodfields Consultant Inc. Land use planning and tax mapping: Jan 2003-Feb 2004.

Technical Adviser and GIS Specialist: SEARCA-ConServ: (Feb 2001-Dec. 2003)

Team Leader: Monitoring and evaluation of Mangrove Plantation in Palawan. Geospatial Technology Solutions, Inc. Oct 2003-Mar 2004.

Team Leader: Monitoring and Evaluation of the Reforestation project in Balog-Balog Watershed, Tarlac. TERRA Concepts, Inc. Philippines: Mar 2002-April.2003

Project Team Leader: Community-based Environmental Health Risk Assessment for the Department of Health in Region 4. DOH-UPLB-FI-CPAF-UPLB: Jan. 2001-Dec.2002.

Technical Director: Community-based Land use Mapping Project (CLUP) Geospatial Technology Solutions, Inc. and TERRA Concepts, Inc. Philippines: Jan 2002- Dec.2002

Technical Director: Community-Based Resource Management Project (CBRMP): TERRA Concepts, Inc. Philippines: Jan. 2001-Dec 2003.

Interests: Weekend farmer, jogging, gardening, and automotive mechanic

Membership

- Crop Science Society of the Philippines
- Asian Remote Sensing Association
- Geospatial Information Society of the Philippines (Current President)
- Philippine Research Managers Association
- Technical Working Group, 2011: Climate Change Commission: Philippines
- Technical Working Group, 2011: Cabinet Cluster on Climate Change
- Technical Working Group, 2012: Mining Industry Coordinating Council

List of References:

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ERNESTO S. GUIANG, PH.D.

Key Qualifications: Dr. Ernesto S. Guiang has 35 years of experience in program design, implementation, monitoring, assessments, and evaluation of multi-faceted, decentralized and integrated environment and natural resource management initiatives of local and international donor agencies such as USAID, the World Bank, Ford Foundation, JICA, GiZ, and FAO. Trained in forest ecology, forestry economics and business management, he continues to advocate the planning and implementation of governance-oriented, incentive-driven, and market-oriented agro-forestry systems and integrated ecosystems management strategies with donors, national government agencies, local government units and non-government organizations. He possesses strong interpersonal, organizational, and managerial skills that are appropriate for innovative and vision-oriented programs.

Dr. Guiang is familiar with most of the design and implementation requirements of USAID- and World Bank-supported projects in the Philippines. He is especially knowledgeable of most USAID policies and regulations having served as Chief of Party (COP) and Deputy Chief of Party (DCOP) for USAID-funded programs for 11 years as well as Agroforestry Advisor for USAID/Manila for 5 years. As COP of more than \$28 million (Phases 1 and 2) of the USAID-funded Philippine Environmental Governance Project from 2002 to 2009, Dr. Guiang managed a multi-disciplinary team of at least 75 staff and consultants in five offices to assist more than 100 cities and municipalities in the planning and implementation of national, provincial, and local-level initiatives that helped improve policies, governance, financing, and management of forests and forest lands, biodiversity conservation, water and solid wastes, and coastal resources. As DCOP of the \$14 million USAID-funded Philippines Natural Resources Management Program, he directed technical staff and field teams, NGOs, and local government units in forest policy formulation, forest land-use planning, community-based forest management, local government participation, and information management systems.

Mr. Guiang holds multiple advanced degrees, including a Ph.D. in Forest Ecology, a Master of Forestry (Forestry Economics), and an MBA. He is fluent in English and Filipino and has basic knowledge of Spanish and Vietnamese.

Education:

Ph.D., Forest Ecology/Agroforestry and Natural Resource Management, Michigan State University (MSU), East Lansing, MI, USA, 1993

M.B.A., Business Administration, La Salle University, Manila, Philippines, 1981

Master of Forestry (MF) in Forestry Economics, University of the Philippines at Los Banos (UPLB), College, Laguna, Philippines, 1980

B.Sc., Forestry, UPLB, 1975

Professional Experience:

March 2011-December 2013 – **Resident National Integrated Ecosystems Management (IEM) Advisor, DENR Foreign-Assisted and Special Projects Office (FASPO), DENR.** Provides direction and guidance to the WB/ENRMP/GEF Team (Knowledge Management Specialist, M&E Specialist, PES specialist, IP Specialist, Land Use Planning Specialist) in the pilot implementation of IEM approach in several watersheds and protected areas. He also reviews and provides advice in the design and implementation of several ENR-related projects that are under FASPO's responsibility.

June 2013-December 2013 – **Part-time national forestry consultant for the updating and climate-proofing of the DENR Revised Forestry Master Plan and Development from 2013-2028.** Mr. Guiang

is the forestry specialist for assessing the status, issues, gaps, and opportunities as basis in formulating strategies which will improve the management of natural forests and forest plantations, and regulation and/or policy incentives for forest-based enterprises and industries. He is a member of a 4-person team for updating and climate proofing the Philippines 2003 revised forestry master plan for development.

July 2011 – September 2013. Intermittent International **Project Design, Management and M&E Specialist for FAO’s Market-Oriented Agroforestry Project and Viet Nam’s New Rural Development Project (NRD/NTP).** He has provided intermittent project management advice and support for the Quang Nam’s Market-Oriented Agroforestry Project and led the design of a one-year project extension that has focused assistance on higher value chains for selected commodities and on strengthening microfinance in six pilot communes. Together with national consultants and counterparts from the Viet Nam’s Ministry of Agriculture and Rural Development, he has developed and piloted a results-based M&E for Viet Nam’s Tam Nong Program (New Rural Development Program).

May 30, 2013-July 30, 2013. **Abt consultant for assessing REDD+ and forestry data in the Philippines including processes for their generation, updating and management.** This was carried under the USAID-funded EC-LEDS Project. Mr. Guiang reviewed and assessed forestry data as to their availability, accuracy, utility for REDD+ pilot implementation in the Philippines. He also analyzed various processes in the generation, updating, and management of forestry data in view of UNFCCC/REDD+ requirements, the Philippines National REDD+ Strategy (PNRPS), governance configuration, and the country’s highly diverse ecosystems landscapes. He provided recommendations on how the Philippines can move forward with REDD+ implementation at the sub-national level and be consistent with PNRPS and other national and local ENR laws.

December 2011-February 2013. **National Integrated Ecosystems Management (IEM) Specialist cum Team Leader,** World Bank and GEF-funded National Program Support – Environment and Natural Resources Management Program for the Philippines Department of Environment and Natural Resources (DENR). A part time IEM technical advisor in the planning and implementation of ridge to reef approach for managing “watershed- ecosystems” in four GEF pilot sites. He worked with specialists at the national and site levels in providing overall direction, strategy, and guidance to DENR’s and LGU’s implementing units and to team members. He led the technical assistance team in providing advisory services on environmental governance, sub-project design and implementation of community livelihoods and enterprises, sustainable finance including payments for environmental services (PES), and monitoring and evaluation (M&E. Through the ENRMP/GEF project, the DENR has gradually adopted the IEM approach in formulating strategic investments to manage and regulate non-negotiables, enhance the ecosystem’s comparative advantage, incentivize the private sector to invest in higher value chains for competitive goods and services, develop climate change adaptation measures, and reduce risks from natural disasters. Under this project, Mr. Guiang was also tapped as a consultant and resource person by GiZ/Philippines in designing and conducting orientation and training on IEM under the National Convergence Initiatives (NCI) of the government of the Philippines.

September 2011-30 March 2012. **ENR Planning and Design Specialist,** USAID/OEE in Manila. He assisted USAID/OEE in Manila in synthesizing completed ENR assessments as inputs to USAID’s country development strategy statement. Part of the engagement included the preparation of background materials and analysis for USAID’s environment and natural resources management program. He helped incorporate issues and challenges on reducing carbon emissions from sustainably managed landscapes, adaptation to increase climate change resiliency of ecosystems and communities, national and local governance, public-private partnership in the ENR sector, and

broadening the financing base for re-investments in biodiversity conservation, forest and watershed management, and adaptation.

March 3-June 15 2011. **Chief of Party**, Winrock International and based in Bangkok, Thailand for the USAID/RDMA-supported “Lowering Emissions in Asia’s Forests” (LEAF) Program. He provided overall leadership, coordination, and direction in preparing LEAF’s work plan and first year implementation plan and the LEAF’s Performance Monitoring Plan (PMP). As COP, he also established working relationships with the Thailand Government counterparts and regional development organizations in particular FAO, UNDP, ADB Greater Mekong Sub-Region, World Bank, WWF and other non-government organizations.

January 2009-January 2011 - **Chief Technical Advisor (CTA)**, Food and Agriculture Organization, FAO/Vietnam on the GCP/VIE/035/ITA Project – Market-Oriented Agroforestry to Reduce Poverty in Quang Nam Province, Vietnam. He provided overall leadership, technical direction, and management in the planning and implementation of market-oriented agroforestry approaches in six communes and two districts in Quang Nam Province. With US \$ 1.2 million from the Italian Government, he directed nine Vietnamese staff and short-term consultants in mobilizing and leveraging support and collaboration from communes, districts, and provincial leaders for joint implementation activities. More than 3,000 households benefited from the project through the improvement of their gardens, gradual shift and adoption of technologies that would have high value and market-oriented combinations of short, medium, and long-term crops, fruits, spices, and trees. The project also initiated an innovative and savings-oriented microfinance system in 40 villages.

July 2002-January 2009. **Chief of Party (COP)**, USAID-funded Philippine Environmental Governance Project (EcoGov) Phase 1, 2002-2004 and EcoGov Phase 2, 2004-2009, Development Alternatives, Inc. (DAI). He provided overall leadership, technical direction, coordination, planning and management of at least 75 staff and consultants located in 4 regional offices and a head office in Manila. He worked closely with multiple national and local partners to assist government units, coalitions, and community organizations in improving the governance of their forests and forest lands, water, and coastal resources. Together with the Department of Environment and Natural Resources (DENR), EcoGov assisted 13 provinces and more than 100 cities and municipalities in translating, integrating, and implementing various environmental policies –forestry, coastal resources, solid waste, and waste water - in key terrestrial and marine biodiversity areas in Central Visayas, Northern Mindanao, and Mindanao. In late 2007, USAID external mid-term evaluation team rated the EcoGov Project implementation as “superior or excellent”.

September 1999-June 2002. **Natural Resources Management Consultant** and later as **Natural Resource Management (NRM) Operation Officer**, World Bank, Manila. Provided technical expertise and project management advice in the design, implementation, and supervision of several World Bank-financed natural resource management initiatives in the Philippines including Conservation of Priority Protected Areas, Community-Based Resource Management, Agrarian Reform Communities, and Water Resources Development projects.

2000-2001. **Team Leader and Ford Foundation Consultant (Part-Time)**, Community-Based NRM (CBNRM) – Forestry National Assessment of the Institute of Philippine Culture (IPC), Ateneo de Manila University and the UPLB College of Forestry and Natural Resources. Led a three-member team of experts and six technical assistants in designing and carrying out assessments, mini-case studies, field visits, interviews, focus group discussions, analyses, and the final write-up of the national assessment of CBNRM- forestry initiatives in the Philippines.

1999-2000. **Forest Resource Economist**, FAO/Bangkok. Conducted literature reviews, field visits, focus group discussions, and analysis of the Philippine experience in banning timber cutting from

natural forests as a strategy for sustainable forest management. Provided technical assistance support to the FAO/Regional Forestry Advisor in Bangkok in conceptualizing and organizing the “Search for Excellence in Forest Management in Asia-Pacific Region.”

1991-September 1999. **Community-Based Forest Management (CBFM) Team Leader (Phase 1) and Deputy Chief of Party (DCOP) in Phase 2 of DAI, USAID-funded NRM Program.** Together with the Chief of Party and other team members, he provided technical direction to NRMP implementation for work in the following areas: forest policy, forest land-use planning, community-based forest management, decentralization, local government participation, and management information systems. He assisted the COP in managing five regional offices with 17 long-term consultants and advisors and about 20 finance and administrative personnel. He provided overall technical direction to field teams, the Department of the Environment and Natural Resources (DENR), NGOs, and local government units in the planning and implementation of community-based forest management activities. NRMP II was a catalyst in facilitating multi-donor efforts in advocating and issuance of Executive Order No. 263, which adopted the community-based forest management in the Philippines as the strategy for social justice and sustainable forestry.

1982-1988. **Agroforestry Advisor,** Foreign Service National, USAID/Manila. He worked with implementing agencies during site identification, design, implementation, monitoring, and evaluation of USAID-funded projects. He was involved with upland development projects, dendrothermal program, agroforestry, capacity and institutional development initiatives.

Other Engagements:

Board Member, Forest Carbon Asia, an NGO that is registered in the Philippines but operates a South East Asia-focused knowledge management web site on carbon emission and related topics.

President, the Lord of Grace Christian School, Inc., Diamond St, East Fairview, Quezon City, Philippines

Member, UPLB Alumni Association, Los Banos, College, Laguna, Philippines.

References:

Dir. Edwin Domingo, DENR/FASPO, Visayas Ave, Quezon City; 928-0028; egdom53@gmail.com

Ms. Lian De Leon, Executive Director, LMP, Quezon City; +63 9188888891; alliagem@yahoo.com

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ERNESTO S. GUIANG

September, 2013

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Bacoor, Cavite, Philippines
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Mobile(Philippines) : +63 9064274846

E-mail: bprosario@gmail.com



CAREER SUMMARY

- More than 30 years research management experience (planning, priority setting, monitoring and evaluation, network coordination, proposal preparation, platform building, policy dialogues) working with the scientists, policy makers and civil society organizations/ farmers' organizations at the national, regional and international levels;
- More than twenty (20) years management and development experience in sustainable development, participatory research, technology development and commercialization including gender issues, with participation in UNCSD sessions as member of Philippines official delegations.
- More than 15 years experience as external evaluator and reviewer of institutions, programs and projects particularly of the CGIAR centers(International Water Management Institute, Bioversity International) , CGIAR Science Council , and donors like DFID and World Bank, including chairmanship and membership of the regional and international Boards (Consortium of Rice Research in Asia (CORRA), Plant Resources of Southeast Asia (PROSEA), Promoting Local Innovations (PROLINNOVA), Young Professionals for Agricultural Research and Development (YPARD), and the International Course for Development -Oriented Research in Agriculture (ICRA);
- Fifteen (15) years experience in multi-stakeholder, multi-sectoral, multi-cultural platform building, networking , facilitation and capacity building at the regional and international levels (Asia Pacific Association of Agricultural Research Institutions, APAARI), PROSEA, International Federation of Agricultural Producers (IFAP), and IFAD/FAO Regional Project involving 120 farmers organizations/ cooperatives/women's groups;
- Extensive experience in bringing science and technology closer to the people especially the farming community, rural women and the youth.

Excellent interpersonal, organizational, conceptual and analytical and communication skills.

EDUCATION

Ph. D. (Agronomy and Soil Science)

University of Hawaii, U.S.A. 1982

Master of Science (Soil Classification)

University of the Philippines Los Baños, Philippines. 1978

Bachelor of Science in Agriculture (Soil Physics)

University of the Philippines Los Baños, Philippines. 1973

Diploma in International Course for Development-Oriented Research in Agriculture (ICRA)

International Agriculture Center, the Netherlands. 1984 (Field Work: Kenya)

CIVIL SERVICE ELIGIBILITY

CAREER EXECUTIVE SERVICE OFFICER (CESO IV). February 1998

PROFESSIONAL. May 1976

SOIL TECHNICIAN. March 1974

PROFESSIONAL EXPERIENCE

International Consultant on Research Priority Setting

Bangladesh Agricultural Research Council (BARC)

National Agriculture Technology Project of the World Bank (NATP)

Project Implementation Unit (PIU)

New Airport Road, Farmgate

Dhaka 1215, Bangladesh

15 November 2012- 3 August 2013

Responsibilities:

Assist BARC and NARS develop a participatory approach to research priority setting taking into account the following:

- Location specific constraints and farmers ' needs;
- Demand driven / need based intervention;
- Macro and micro contexts;

Design and pretest training modules for trainers.

International Consultant on Food policy and enabling environment for post harvest development in Timor Leste

1-28 October 2012

FAO Regional Office for Asia and the Pacific (FAORAP)

Bangkok, Thailand

Responsibilities:

General:

-Review existing policies and strategies, and assess the current situation in Timor Leste with respect to the enabling environment for post-harvest development planning needs for the Ministry of Agriculture to be in line with the broad government policy direction on the agriculture food security crops, industry and export crops sub- sector development.;

-Recommend a National Post-harvest Strategy for Timor Leste.

Specific Terms of reference:

1. Conduct a review and analysis of sector and sub-sector policies, strategies and plans of the Timor-Leste Government, including for the Coffee Sector , Coconut Sector, Spice, Rice and Pulses, Root and Horticulture Crops, Agriculture Research and Agriculture Quarantine and cross cutting issues affecting the sector. Report on the current status of each sub-sector, particularly within the context of post-harvest development and management.
2. Identify critical policy gaps that need to be addressed to support a strategy for post-harvest sector development in the country, taking into consideration the food chain from input quality through production, post-harvest treatment and handling, processing to marketing, as well as the role of Government and the private sector, and recommend policy options for improvement.
3. Prepare a draft agenda for the strategy workshop to be implemented for the post-harvest sector and assist with the organisation and implementation of the workshop.

4. Facilitate a multi-stakeholder workshop in collaboration with the RAP - Senior Agro-Industries and Post-harvest officer;
5. Contribute a Power-Point presentation (30-35 slides) that summarises key findings and recommendations of your analyses and present it to the workshop.
6. Submit, in accordance with FAO requirements, soft copy of the draft report to RAP using Microsoft Office applications and prepare a revised/final report taking into account comments and suggestions received, if any.

Regional Programme Coordinator

IFAD Medium Term Cooperation Programme Involving Farmers Organizations in Asia –Pacific (MTCP- GCP/RAS/249/IFA)

FAO Regional Office for Asia and the Pacific

Bangkok, Thailand

May 14, 2010 – July 31, 2012

The project aimed to strengthen capacity of small farmers’ organizations in Asia -Pacific region and their networks to influence policies affecting their members. Focus is on platform building at the national and sub-regional levels, networking, policy dialogue at the national and sub-regional level, and capacity development of FOs.

General Terms of Reference:

1. Programme Management and Coordination and facilitation – involving 7 countries in SEA plus China (Cambodia, China, Indonesia, Laos, Philippines and Vietnam); and 3 South Asian countries;
2. Platform building and Networking- programme relations with CSOs, governments, IGOs, donors, etc;
3. Resource development- broaden programme donor base; identify programme areas for possible collaboration with other interested resource /donor groups.

The project achieved reasonable progress despite limitations in funding and personnel. At the national level, the MTCP platform/forum became more and more inclusive bringing in more stakeholders (government, private sector, academe, NGO, FAO, IFAD). They did mapping of 120 farmer organizations representing 17 million farmers and profiling of 79 farmer organizations; established their national structure (National working group, national steering /Advisory Committee, national implementing agency/focal point); conducted research and studies on their priority areas; held policy workshop to analyze results of studies ;conducted capacity building of their members . Among these countries, Vietnam advanced to a level of discussing policy issues related to the roles of the 4 actors of production and marketing (government-academe-private sector-farmers organization) and participatory land settlement as an offshoot of an IFAD project in the mountain provinces; Philippines constructively engaged with policy makers on the issue of coconut levy and land reform. At the sub-regional level, the project achieved a milestone in the ASEAN when it was given a space during the agriculture ministers dialogue (on 6 October 2011) related to market, trade and investment. Two sub-regional studies and two policy workshops were held during 2011 which generated two policy briefs on thematic areas such as “supporting farmers organizations in market linkages in SEA and China” and “ farmer organizations in climate change adaptation and mitigation”, now uploaded in IFADAsia website.

ASIAN REGIONAL COORDINATOR

International Federation of Agricultural Producers (IFAP)

60 Rue St. Lazare, 75009 Paris, France

September 2007- December 2009

Duties:

General: take the lead in organizing and building the capacity of national farmers' organisations in the region on national and international farm policy processes.

Specific:

- Bring national and regional concerns to the global level through sustained dialogue and meetings with IFAP Policy Officers based in Paris and participation in regional/ sub-regional forum and international meetings and conferences sponsored or co-organized by IFAP
- Awareness raising on global issues through missions, seminars and workshops at the regional/sub-regional levels (agriculture investment in general, climate change, linking farmers to market, gender, food security)
- International lobbying including promoting ‘farmer centered development model’
- Confidence- building among IFAP member organizations in the region and other strategies to build the regional network through sourcing of additional funds, expertise and resources
- Promote IFAP in the region to increase its visibility and increase membership of farmers organizations in IFAP which is the world’s organization of agricultural producers (14 potential members; 6 applied and approved)
- Facilitate information exchange among farmers in the region and at a global level through appropriate information technology, exchange visits, study tours, and similar activities
- Facilitate contacts with AGRICORD in Belgium for capacity building of farmers organizations, and with other relevant organizations such as IFAD, FAO, and DGIS in the Netherlands, among others
- Coordinate with the different IFAP Committees and Policy Officers to synergize important and priority policy and development interventions

CONSULTANT

Natural Resources International Ltd (NRI)

Park House, Aylesford

Kent ME20 6SN, U.K.

December 2007- February 2008 (total of 30 days)

Duties: to conduct Pan-Asian and South-East Asian Network Mapping and Opportunity Analysis in the field of agriculture/natural resources policy with broader reference to research and science innovation policy processes of interest to DFID Research in Use Programme (RIU).

Specific:

- Identify policy organs and networks within national governments and/or regional bodies if appropriate and associated decision making bodies of interest to RIU
- Status of current relationships and most effective channels of influence and communication between policy shapers and policy makers at the (sub)regional and national levels identified(including policy networks, farmer associations, private sector associations, parliamentary for a, media associations, etc)
- Identification of potential strategic partners and “local champions” with the necessary political capital and interest to help promote RIU principles, lessons and evidence within the Asian and PAN-Asian or Southeast Asian levels and at national levels in Vietnam and Cambodia.
- Mapping of the major players and existing initiatives of a potential complementary nature to RIU activities within the region.
- Assess the short term and medium term regional and national policy agendas in those target countries, including but not restricted to regional and national agricultural and science policy frameworks, programmes or sectoral plans.
- Identify current priorities and interest of national/regional agricultural and environmental donor working groups if appropriate.
- Identify policy windows and opportunities for direct RIU engagement in processes of policy dialogue (indicative tables and events listing).

TECHNICAL EXPERT PANEL REVIEWER

Innovation Challenge Fund Proposals

Natural Resources International Ltd (NRI)

Park House, Aylesford

Kent ME20 6SN, U.K.

October 2007-December 2007

Duties:

Review 25 proposals (concept notes) using the following criteria and scoring system:

- relevance and quality of outputs and partnerships (80%) – relevance to RIU, quality and feasibility, relevance to international development agenda and national poverty reduction policies, added value and exit strategy for program sustainability after RIU, track record of partners, partnership quality, environmental relevance, quality of engagement strategy;
- value for money (20%)- appropriateness of costs and spending.

CONSULTANT

FAO Regional Office for Asia and the Pacific (FAO RAP), Bangkok, Thailand

June 2007 to October 2007 (intermittent)

Duties: Conduct case studies on “Impacts of producing under organic production conditions on farming practice”, on at least three commodities, i.e. organic rice, tropical vegetables (eggplant, tomato, onions) and semi tropical vegetables (lettuce), through field visits and discussions with farmers and their marketing partners, and highlight impact of special requirements of organic production on the producer’s farming system and economic costs, extra value-added gained by producers under organics system, mechanisms developed by trading partners to determine and guarantee quality requirements, negative impacts (technical or economic) of involvement in organics on the farming system.

CONSULTANT

International Livestock Research Institute (ILRI-CGIAR)

June 2007 to December 2007

Duties: Conduct Livestock Training Needs Assessment in Southeast Asia, China and the Pacific. In particular, collect and synthesize all available relevant secondary and primary information related to this study and identify the learning and capacity strengthening needs of the subregion, the alternative suppliers, strategic partners and priorities for ILRI.

ASSISTANT EXECUTIVE SECRETARY (September 2005 –April 2007)

Asia-Pacific Association of Agricultural Research Institutions (APAARI)

Bangkok, THAILAND

General:

- Assisted the Executive Secretary in organization and management of APAARI for promoting effective inter-institutional linkages for agricultural research in Asia-Pacific;
- Coordinated various APAARI activities, keeping liaison with NARS, IARCs, CSOs, other international and regional organizations.

Specific:

- Assisted in organizing Expert consultations, policy dialogue, roundtable discussions (linking farmers to markets, implementation of the Treaty-ITPGRFA, biotechnology, research needs assessment and regional R & D priorities), Executive Committee and General Assembly meetings;
- prepared all required scientific/technical reports, speeches and power point presentations, agenda as well as background papers;
- Prepared progress and annual reports, concept notes/proposals for GFAR funding;
- Updated information for APAARI brochure, poster and APAARI web site;
- Prepared feature articles for APAARI Newsletter, proceedings of APAARI expert consultations/ meetings, and edit APAARI publications (Success stories, special publications, etc).
- Represented APAARI in other fora, workshops, meetings, and conference as necessary.

PANEL MEMBER (2004-2006)

Science Council -CGIAR

Standing Panel on Monitoring and Evaluation (SPME)

FAO, Rome, ITALY

- The SPME facilitates the work of the Science Council in enhancing science quality in the CGIAR. It helps the SC guard the relevance and quality of ongoing science in the CGIAR. It recommends to the

SC new and streamlined evaluation procedures for peer review of research proposals, regular self-assessments by Centers, and Center reviews.

- The specific activities performed were active participation in review of Medium Term Plan of the Challenge Program on Water and Food, System priorities, New Monitoring and Evaluation Process of the CGIAR Centre, System wide Program on Alternative to Slash and Burn. Active participation in SC 3 meeting discussing forthcoming Centers' self assessment (Centre Commissioned External Reviews) and External Program and Management Reviews, and draft Medium Term Plans of Centre.
- The specific assigned tasks were: review of the following centers/system wide programmes such as ICRAF, Alternative to slash and Burn Programme (ASB), African Highland Initiative (AHI), IPGRI, and System wide Genetic Resources Programme (SGRP).

EXTERNAL REVIEWER AND PANEL TEAM MEMBER (21April – 29 May 2003)

Center Commissioned External Review (CCER)

International Water Management Institute (IWMI)

Southeast Asia Regional Office, Bangkok, THAILAND (21 April-4 May 2003), and

IWMI Headquarters, Colombo, SRI LANKA (19-29 May 2003)

- As reviewer for IWMI- SEA (21April-4 May 2003): Reviewed and assessed IWMI-SEA activities and accomplishments vis a vis IWMI's mission, policies, strategies, and research priorities; quality and relevance and impact of research; added value of IWMI in the region; partnerships with other key players in the CGIAR and other institutions; and organization and management (structure, staff, other resources, systems and procedures, i.e. planning, monitoring and evaluation.). The following activities were performed: Review of relevant background information and documents (Strategic Plan, Annual Reports, Project Documents, etc); Dialogue with regional staff; interview with stakeholders in Thailand and Philippines; field visits to Thailand partner institutions (government, NGO's); stakeholder's workshops in Thailand and Philippines as input to Strategic planning process (looking at the strength, weaknesses, opportunities and threats to IWMI) undertaken simultaneously with this review.

The review resulted to a number of recommendations which were inputted into the overall organizational IWMI review. The integrated recommendations were presented to and accepted by the IWMI Board.

- As Panel Team Member (19-29 May 2003): Reviewed the overall organization of IWMI, its strengths, weaknesses, opportunities and threats. The main areas covered were: Planning, monitoring, evaluation and impact assessment of research; gender staffing and mainstreaming gender in IWMI themes/projects; Priority setting and involvement of the NARS in this activity; Functioning of partnerships and achieving impact thru partnership, and dissemination of research results; functioning of IWMI within the CGIAR system and adaptation to changes in the CGIAR; and Capacity building. The following activities were performed: Review of relevant background document (strategic plan, annual reports, project documents, concept notes); Discussions and in depth interviews with IWMI management and selected staff, IWMI partners/stakeholders; telephone interviews with regional director (Africa), senior scientists/Theme Leaders; debriefing to the IWMI Board of Trustees.
- The review resulted to a set of 18 specific recommendations considered in the overall recommendations to the Board

EXTERNAL REVIEW PANEL LEADER

Center Commissioned External Review (CCER)

International Plant Genetic Resources Institute (IPGRI-Asia Pacific and Oceania Region)

Serdang, MALAYSIA

(September 2002)

- The review entailed an assessment of the achievements and output of IPGRI-APO in relation to the Strategic Plan 2000-2003. The following activities were performed: Review of IPGRI-APO self assessment results, draft regional strategic plan, annual reports for the last 5 years under review;

interview key scientists and staff; field visits to Vietnam and Malaysia and interaction with rural community; visit to selected Asia Pacific country partners (academic institutions, laboratories, seed gardens, private sector partner and educational institutions), telephone interview with peers from IPGRI regional offices in Africa, Latin America, and Rome, dialogue with regional staff, and discussion with IPGRI Board.

- The results were recommendations to the Board for IPGRI-APO to adopt a framework reflecting the mission of IPGRI to conserve and utilize plant genetic resources for food security and reduce poverty, focus activities in selected countries instead of providing assistance to all 49 Asia Pacific countries with limited impact, adoption of a simple tracking system to assess extent of collaboration, total investments, sustainability; impact in terms of adoption of similar initiatives and/ or approaches by other IPGRI regional offices, formulation of national action plans on Plant Genetic Resource Conservation as per Convention on Biodiversity, among others; and linking with other regional groupings such as APAARI, APAFRI, and projects such as PROSEA and ARCBC with similar concerns.
- The review and assessment resulted to 17 recommendations, 16 of which were accepted by the IPGRI Board.

CHAIR (2005-2006); Vice-Chair (2007-2008)

PROLINNOVA Oversight Group (POG)

Global Partnership Programme on Promoting Local Innovations (PROLINNOVA) OF THE Global Forum for Agricultural Research (GFAR) ETC, the NETHERLANDS (Secretariat)

- Represented the Global Forum for Agricultural Research (GFAR), as a NARS stakeholder, in the POG
- PROLINNOVA was initiated and led by NGOs from Africa, Latin America and Asia and supported by the Global Forum for Agricultural Research.
- The major responsibilities of the POG are: provide overall guidance to the PROLINNOVA programme regarding major issues and directions; provide oversight to the Prolinnova programme on behalf of the Country Programmes (CPs) and donors; develop the Prolinnova strategy, policies and principles in consultation with the CPs and facilitate review over time; oversee adherence of the CPs and Prolinnova Secretariat (ETC) to the agreed strategy, policies and principles; arbitrate in conflicts between CPs and the Prolinnova International Support Team (ETC, IIRR, CIS-VUA and LBL Switzerland), as well as in conflicts between these and donors; ensure that adequate means of M&E are being applied to safeguard the integrity of the Prolinnova programme; and ensure that advocacy activities are conducted effectively.

MEMBER (2006 -2009)

Senior Advisory Group

Young Professionals Platform for Agricultural Research for Development (YPARD)

University of Hannover, Germany (Secretariat)

- Provide guidance and direction to YPARD
- Mentoring YPARD members
- Advocacy on the role of young professionals and the youth in general in ARD.

BOARD MEMBER (2004-2006)

International Center for Development Oriented Research in Agriculture (ICRA)

Wageningen, the NETHERLANDS

(Representing ICRA Alumni)

- Link ICRA with relevant institutions for the implementation of ICRA's new strategy and to facilitate access to funding.
- Review ICRA's activities and progress of implementation of new strategy.

RESEARCH TEAM MEMBER (2003-2004)

ANGOC-PCARRD Philippine Research Team

FAO Philippine Case study on Sustainable Agriculture and Rural development-

Farming Systems Evolution (FSE-SARD)

FAO, Rome, ITALY

- Contributed in the formulation of the overall framework, process and content of the Technical study;
- Responsible for Chapter 4.1 (FS Evolution at the national level)- the national level characterization and national –level evolution of the selected farming system (rainfed lowland rice farming) in relation to SARD-with focus on the historical, political and institutional contexts and sustainability, i.e. identify major trends, analyze main historical milestones of agricultural development/changes in the country, analyze long term past trends of farming system (1950-2002), including appropriateness of processes adopted by the institutions (successes and failures), and their favorable or unfavorable impacts-with SARD objectives.
- Identified key areas which should be addressed by public policy in order to ensure sustainability (SARD) in the selected farming system.

CONVENOR (July 2002)

FAO Expert Panel

FAO Regional Office for Asia and the Pacific

Bangkok, THAILAND

- The Panel prepared an authoritative Asia-Pacific Strategic Framework for “Biodiversity, Biotechnology, and Biosecurity: Towards an Evergreen Revolution,” one of the five programme thrusts of FAO-RAP based on the 16 Priority Interdisciplinary Areas (PIAs) identified in the Medium Term Plan 2000-2015.
- The Strategic Framework was formulated based on earlier draft of FAO staff and consultants using participatory reviews, analyses, and case studies by appropriate and knowledgeable national and international entities organizations.
- The five Frameworks were synthesized and prepared jointly by FAO-RAP and the Regional Network for the Development of Agricultural Cooperatives in Asia and the Pacific. The publication aimed to increase awareness of the key features, global importance, pressing needs, and opportunities for progress for the Asia-Pacific agricultural systems during the periods 2000 to 2015 (and to 2030) as they endeavor to support and sustain human livelihoods, food security, and national development.
- The Panels’ developing-country members represented nations that have an aggregate population exceeding three-fourths of the RAP-developing-country total.

AGRICULTURE RESEARCH AND DEVELOPMENT MANAGEMENT SPECIALIST

Diversified Farm Income and Market Development Project (preparatory phase)

World Bank/ the Department of Agriculture

PHILIPPINES

September 2003-December 2003)

Scope of work: Institutional Strengthening of the Research, Development and Extension agencies of the Philippine Department of Agriculture

- The activities performed were as follows: Assessment of the DA RDE system and strategic planning for the DA- Agriculture Training Institute
- The assessment entailed a review of the provisions of the Agri -modernization Law, the BAR strategic plan, its accomplishments, R & D investments, its network of RD institutions, its systems and procedures (planning, monitoring) and core competence including partnership with other international institutions. It also entailed dialogue with the RDE institutions and with the Agriculture and Training Institute (ATI) and the LGU’s who are mandated to do extension work. It entailed field visits to have an appreciation of the range of collaborative projects and the market approach promoted. It entailed dialogue with and visit to the private sector farms in the project focus areas to understand the “ best practice “ which can be adopted by public RDE institutions.
- The results are a set of recommendations to strengthen BAR and the DA RD institutions in the areas of technology management, IPR management, quality management systems, institutionalization of an M & E mechanism such as the External Program Review, adoption of a market driven approach; and a strategic plan for ATI with its new mandate of a coordinating, planning and monitoring body of a pluralistic Extension system.

TEAM MEMBER (February 2003- March 2004)

GEF Project preparation Team

PhilRice-PCARRD/NARRDN

Los Banos, Laguna, PHILIPPINES

- Prepared draft proposal on “Strategic Environmental Entrepreneurships in Selected Biological Corridors in Ilocos Norte and the Cordilleras (2005-2009)”
- Conducted multi-stakeholder dialogue to generate necessary data/information
- Participated in relevant meetings with UNDP, DENR and Bureau of Soils – GEF point persons

DIRECTOR (1 June 2000-30 Nov 2001)

Plant Resources of Southeast Asia Network (PROSEA)

PROSEA Foundation

Bogor, INDONESIA

- PROSEA Foundation is an international NGO which implemented an international programme on Documentation and dissemination of information on plant resources of SEA in print (20 volume books), and electronic form (e-PROSEA), mainly funded by the Dutch Government.
- Activities performed: Supervised the regional coordination of PROSEA Country offices in Indonesia, Malaysia, Philippines, Papua New Guinea, Thailand, and Vietnam.
- The following activities were monitored and evaluated: timeliness of submission of country offices’ inputs to PROSEA databases (abstracts, institutions, experts, photos of plants); timeliness of submission and completeness of accomplishments vis a vis target as per annual work plan vis a vis PROSEA Master Plan) for reporting to and advise by the Board; complete inventory of PROSEA output and report on sales of PROSEA outputs (books); analysis of the clients served and improving service delivery; scaling up of “best practice “ (e.g. linking with other sectors- education, agriculture and forestry extension, private sector, academe, women and the youth, and non traditional donors), country initiatives to institutionalize or mainstream project activities for sustainability.
- Staff performance evaluation and capacity building-based on individual work plan, targets of whom were readjusted when budget became a constraint, reorganized staffing for effective teamwork, conducted English class for junior staff in preparation for the eventual turnover of responsibility from Wageningen partners to the Regional office, hired consultant to beef up IT capability of the regional staff.
- Promotion and Dissemination of PROSEA outputs (Books, popular learning materials) and PROSEA knowledge base (e-PROSEA)- through seminars and conferences at the regional and international level, demonstration of e-PROSEA for use in agriculture and forestry extension and rural development (thru Indonesian DAFEP and ARM II WB projects, education (thru BIOTROP), biodiversity conservation (Gunung Halimun group and ICRAF), pharmaceutical (INDO PHARMA) and cosmetics (Martha Tillar).
- Resource generation- synthesized more than 10 year PROSEA experience and matched PROSEA niche with donor priorities, the outputs are proposals for submission to donors: European Union- EUR 1.4 M; Info Dev-World Bank – US\$ 250,000; Asian Development Bank – US\$800,000).
- Transformation of Network Office into a PROSEA Head Office- evaluated the core competence of the Network office, its facilities, systems and procedures required of a Head office, and revisited the Charter of the PROSEA Foundation for the legal implication of such a move.

OFFICER-in-CHARGE/ACTING EXECUTIVE DIRECTOR (1 July 1998 – 15 August 1999)

The Philippine Council for Agriculture, Forestry, and Natural Resources Research and Development (PCARRD)

Los Baños, Laguna, PHILIPPINES

- Initiated/established creative partnership with the civil society, local government units, the legislative, the private/business sector, and other non-traditional partners in the executive branch such as the Department of Foreign affairs and the Department of Trade and Industry through:
 - Inclusion of civil society representative in PCARRD governance (Governing Board, Technical Advisory Committee);
 - Collaborative action research on natural resources management and sustainable development with local government and civil society;

- Capacity building of PCARRD secretariat and selected NARS institutions
 - On policy research including gender, trade and environment;
 - Integrate IPR concerns, structurally and in plans and programs;
 - Organic agriculture concerns such as standardization and certification.
 - Continuous dialogue with various stakeholders regarding biotechnology, sustainable agriculture, and organic agriculture.
- Consolidated the technology commercialization and promotion activities, conceptualized and launched the “Techno Gabay Unlad Buhay Para sa Masa” Program, with the following components: technology packaging, technology management, technology support services participated in by various stakeholders, namely, R & D institutions, banking institutions, rural-based organizations;
- Initiated the packaging of the US\$17 M program of PCARRD for agricultural modernization to include Biotechnology (\$6 M), Sustainable Agriculture and Natural Resources Management (\$6 M), Technology Management (\$2.5 M), and Institution Development (including Human Resources Development, Information Technology) (\$2.5 M);
- Intensified activities providing stakeholders access to information:
 - Farmers information and technology services (FITS) located in the local government units, private sector or NGO offices or village centers on a co-sharing arrangement and shared accountability;
 - Farmer scientist bureau (FSB) as pool of outstanding farmers;
 - Working towards electronic interconnectivity of regional R & D consortia;
 - Mango information network (MIN) as prototype for other commodity information network;
- Managed the following internationally funded projects:
 - Sustainable Agriculture and Natural Resources Management Project (USAID)
 - Mango Information Network (UNDP)
 - Plant Resources of South-East Asia (Wageningen Agricultural University, ITTO, IDRC, EU)
- Served as Philippine focal person on environment for the UNCTAD project on “Strengthening Research and Policy-Making Capacity on Trade and Environment, 1999 to date
 - Liaise with national institutions, NGOs, business and other sectors
 - Coordinate workshops/conferences
- Expanded gender networking at the national and international level.
 - CGIAR Centers
 - UN Agencies (FAO, UNDP, UNCTAD)
 - World Bank

DEPUTY EXECUTIVE DIRECTOR FOR RESEARCH AND DEVELOPMENT (1991 –March 2006)

(Acting Deputy Executive Director for R & D - 1989-91)

PCARRD, Los Baños, Laguna

PHILIPPINES

- Served as Executive Secretary of the Steering Committee (National Academy of Science and Technology and PCARRD, 2004-2005) formulating the Philippine Agriculture 2020, a strategic plan based on industry cluster approach;
- Led the formulation of Philippine Agriculture and Forestry Biotechnology Agenda and Program (PAFBA I (1995-2000) and PAFBA II (2002 and Beyond);
- Managed the annual competitive research grant funds of PCARRD;
- Managed five (5) technical research divisions of PCARRD: Crops, Livestock, Forestry and Environment, Agriculture and Resources Management, and Socio Economics Research;
- Coordinated the annual budget dialogue among R & D member institutions, PCARRD and the Department of Budget and Management;
- Coordinated the planning, monitoring, and evaluation of R & D programs in agriculture, forestry and natural resources of 128 member institutions;
- Managed the 14 regional R & D consortia;
- Conceptualized the book on “R & D Consortia Management”;
- Conceptualized/institutionalized the “Ugnay” Award for Outstanding Regional R & D Consortium;

- Conceptualized and implemented the research management fellowship (RMF) and research management service (RMS) of PCARRD for the regional R & D consortia;
- Conceptualized/institutionalized the integrated R & D program (IRDP) approach;
- Reviewed and updated the Philippine Rice Research and Development Network;
- Generated funding for the NARS from both local and foreign sources;
- Managed the following internationally funded projects:
 - The Plant Resources of South-East Asia (PROSEA) Philippine Country Office
 - Established PROSEA nodes in 14 regional R & D consortia;
 - Disseminated PROSEA information through print, radio and other medium.
 - R & D component of Rainfed Resources Research and Development (RRDP-USAID funded)
 - R & D component of Agricultural Support Services Project (World Bank)
- Provided technical advise/support to the USAID funded Natural Resources Management project (NRMP);
- Coordinated the CIRAD-PCARRD collaboration including the establishment of the Philippine Rubber Testing Center in the University of Southern Mindanao funded by the French government through CIRAD;
- Established, supported, and monitored NARS gender focal persons and their activities;
- Developed prototype gender training modules for researchers, extension workers;
- Managed the Philippine Biotechnology R & D Program;
- Established the one-stop-information-shop (OSIS) in the 14 regional R & D consortia which became the model for the Farmers Information and Technology Services (FITS) at the provincial, municipal, village levels;

COMMITTEE CHAIR

**Committee on Means and Implementation and Sub-Committee on Science and Technology
Philippine Council for Sustainable Development (PCSD) = a multi-sectoral , multi stakeholder
platform for Philippine Agenda 21
(Facilitated by the Philippine National Economic and Development Authority)
Manila, Philippines
1995-98**

- Reviewed implementation and localization of Philippine Agenda 21;
- Reviewed Philippine position on environmental and sustainable development issues;
- Conducted dialogue with various stakeholders;
- Participated in annual UN Commission for Sustainable Development (UNCSD) sessions.

VISITING SCIENTIST - Women in Rice Farming Systems (1992-1993)

International Rice Research Institute (IRRI)

Los Baños, Laguna

PHILIPPINES

- Sensitized scientists on gender issues in agriculture;
- Collaborated with engineers, social scientists, on participatory research on development of gender friendly technologies such as micro mill, seed storage;
- Networked with other ASIAN NARS gender focal persons.

DIRECTOR FOR PLANNING (1986-1989)

PCARRD, Los Baños, Laguna

PHILIPPINES

- Coordinated the formulation of PCARRD corporate plan;
- Conceptualized the regional symposium on R & D highlights (RSDH) at the consortium level;
- Initiated/coordinated PCARRD-CIRAD collaboration on rubber, coffee, coconut, farming systems.

ASSISTANT DIRECTOR FOR SOIL AND WATER DIVISION (1983-1985)

PCARRD, Los Baños, Laguna

PHILIPPINES

- Coordinated packaging of Soil & Water Research Program;
- Monitored, evaluated Soil & Water researches.

SUBJECT MATTER SPECIALIST - Soil and Water (1975-1982)

PCARRD, Los Baños, Laguna

PHILIPPINES

- Contributed to/coordinated publication of Philippine Recommends on Soil Fertility Management.

INSTRUCTOR (1973-1974)

Department of Soil Science

University of the Philippines Los Baños

Laguna, Philippines

PHILIPPINES

- Taught undergraduate soil fertility course.

GRADUATE ASSISTANT (1978-1982)

Benchmark Soils Project

Department of Agronomy and Soil Science

University of Hawaii at Manoa

Hawaii, USA

- Worked on “Diagnosis and Recommendation Integrated System (DRIS) of Tropical Soils “ for Ph.D. dissertation

**MAJOR PARTICIPATION IN INTERNATIONAL, REGIONAL
NATIONAL REVIEWS, COMMITTEES/WORKSHOPS/CONFERENCES**

- **Member**, Peer Review Team, East-South Asia and Pacific (ESAP) Sub-global assessment for the International Assessment of Agricultural Science and Technology (IAASTD), World Bank – coordinated by the World Fish Center, MALAYSIA (June- September 2006).
- **Member**, Design Team, East-South Asia and Pacific (ESAP) Sub- global assessment for the International Assessment of Agricultural Science and Technology (IAASTD), World Bank /Chinese Academy of Agricultural Sciences, Beijing, CHINA, 2005.
- **Chair** (2005-2007), PROLINNOVA Oversight Group (POG) of the International Programme on Promoting Local Innovations, an NGO-led initiative of the NGOs from ASIA, AFRICA, LATIN AMERICA, supported by the Global Forum for Agricultural Research (GFAR).
- **Panel Member**, Science Council Standing Panel on Monitoring and Evaluation, CGIAR Science Council based in FAO, Rome, ITALY, 2004-2006.
- **Research Management Specialist** (institutional strengthening of the Research, Development and Extension agencies of the Philippine Department of Agriculture), Diversified Farm Income Management and Development Project (preparatory phase) for the World Bank assisted project of the Department of Agriculture, PHILIPPINES, and September- December 2003.
- **Team Member**, Project preparation Team, PhilRice-PCARRD/NARRDN, for the GEF proposals: Strategic Environmental Entrepreneurships in Selected Biological Corridors in Ilocos Norte and the Cordilleras (2005-2009), PHILIPPINES, February 2003-March 2004.
- **External reviewer and Panel Team Member**, Center Commissioned External Review, International Water Management Institute (IWMI), Southeast Asia Regional Office (Bangkok, THAILAND) and IWMI Headquarters (Colombo, SRI LANKA), 21 April- 4 May 2003, and 19 –29 May 2003, respectively.
- **Board Member**, International Center for Development Oriented Research in Agriculture (ICRA), Wageningen, the NETHERLANDS, 2003-2005 (representing ICRA Alumni).
- **Research Team Member**, FAO Case study on the Farming system evolution to Sustainable Agriculture and Rural development (FAO-ANGOC-PCARRD), 2003-2004.

- **External Reviewer and Panel Leader**, Center Commissioned External Review of the International Plant Genetic Resources Institute (IPGRI) activities in the Asia, Pacific and Oceania region, Serdang, MALAYSIA, September 2002.
- **Convenor**, FAO Expert Panel on Biodiversity, Biotechnology, and Biosecurity: Towards an Evergreen Revolution, commissioned by FAO Regional Office for Asia and the Pacific, Bangkok, THAILAND, July 2002.
- **Philippine Delegate**, UNEP-MEA/WTO Meeting on Information Exchange, Geneva, SWITZERLAND, 9-12 November 2002.
- **Secretary**, Plant Resources of Southeast Asia (PROSEA) Board of Trustees, Bogor, INDONESIA, 2000-2001.
- **Philippine Focal Person** (Environment), UNCTAD Project on Strengthening Research and Policy Making Capacity on Trade and Environment, 1999-2001.
- **Member**, Philippine delegation to the United Nations Commission on Sustainable Development (UNCSD), Sessions V, VI, VII, 1997-1999.
- **Chair**, Committee on Means of Implementation and Subcommittee on S & T, Philippine Council for Sustainable Development (PCSD) composed of the government, business sector, labor sector, civil society, including representative of women's group and the indigenous people, 1996 –1998.
- **Chair**, Council for Partnership in Rice Research in Asia, based in IRRI, Los Baños, Laguna, PHILIPPINES 1998-1999.
- **Board Member**, Plant Resources of South-East Asia Foundation (PROSEA), based in Bogor, INDONESIA, 1991-2000; Member, Task Force: PROSEA Beyond 2000, 1998-1999.
- **Philippine Representative** to APAARI, 1998-1999; Member, Membership Task Force.
- **Philippine Delegate** to Europe – Asia Forum on Culture, Values and Technology Towards a Stronger Mutual Understanding, Venice, ITALY, 1996
- **Visiting Scientist**, International Rice Research Institute, 1992-1993 (Women in Rice Farming System).
- **Member**, Philippine Technical Working Group mandated to draft legislative bill on Plant Variety Protection, 1999.
- Philippine **Coordinator**, Biotechnology R & D Program, 1997 –2000; 2002 to date.
- **Member**, Board of Trustees, Philippine Rice Research Institute, 1998-1999.
- **Chair**, Technical Advisory Committee, PCARRD, 1998-1999.
- **Resource Speaker**, APO Seminar on Current Status of Input Application to Sustainable Agriculture in the Asia-Pacific Region, Tokyo, JAPAN, 27 August – 6 September 1996.
- **Philippine Representative**, APO Study Meeting on Adaptation of Productivity Technique in Agriculture, Manila, PHILIPPINES, 21-25 August 1995.
- **Member**, PHILRICE–JICA Project Coordination Committee, PHILIPPINES, 1997-1999

LANGUAGES

- **Filipino** (mother tongue) - Excellent
- **English** - Excellent
- **Spanish** – Fair
- **Indonesian** – Conversational
- **French**- basic

SELECTED PUBLICATIONS/PAPERS

INTERNATIONAL/REGIONAL PAPERS

1. Del Rosario, B.P. and A. P. Aquino. 2008. PAN-ASIA Mapping and Opportunity Analysis for Agriculture and Natural Resources Research and Science Innovation Policy Processes. A report submitted to the Natural Resources International Ltd, U. K.

2. Del Rosario, B. P. A.P. Aquino, A. G. Tidon, and R. V. Gerpacio. 2008. Learning and Capacity Strengthening Priorities of ILRI in Southeast Asia, China and Papua New Guinea: A Livestock Training Needs Assessment. A report submitted to the International Livestock Research Institute, Addis Ababa.
3. Brown, E. O., B.P. del Rosario and C. Aganon. 2007. Impact of producing under organic production conditions on farming practice.. A report submitted to FAO Regional Office for Asia and the Pacific. Bangkok, Thailand.
4. Del Rosario, Beatriz. 2006. APAARI: A Platform for knowledge sharing in the Asia-Pacific. Paper presented during the ILRI-FAO-APHCA regional workshop on Pig Systems in Asia and the Pacific: how can R & D enhance benefits to the poor? Bangkok, Thailand. November 23-25, 2006
5. Del Rosario, B.P. 2006. Strengthening the Partnership between Farmers Organization and Agricultural Research Community. Presented during the IFAP Asian Committee Meeting, 37th IFAP World Farmers Congress, Seoul, KOREA. 15 May 2006.
6. Clavero, C. and B. P. del Rosario. 2005. Business Prospects of Biotechnology Products: the Philippine Agricultural Research System Experience. Country paper prepared for the Multi-Country Study Mission sponsored by the Asian Productivity Organization, ROC, 22-28 May 2005.
7. Del Rosario, B. P. 2003. Report on Center Commissioned External Review of the International Water Management Institute- Regional Office Southeast Asia, Bangkok, THAILAND, 21 April-4 May 2003.
8. Del Rosario, B. P. 2003. Report (Part of a Team Report) on Center Commissioned External Review of the International Water Management Institute- Headquarters, Colombo, SRI LANKA - 19-29 May 2003.
9. Wright, A., A. Vainadyanathan, and B. P. del Rosario. 2003. Overall Report on Center Commissioned External Review, International Water Management Institute- Headquarters, Colombo, SRI LANKA, 19-29 May 2003.
10. Del Rosario, B.P, A. Parida, Y. Peng, S. Bhumiratana. 2002. Biotechnology, Biosecurity and Biodiversity: Towards an Evergreen Revolution (A Strategic Framework for Asia and the Pacific)- Panel Report. FAO Regional Office, Bangkok, THAILAND.
11. Del Rosario, B.P., Dongyu Qu, T. Sengooba. 2002. International Plant Genetic Resources Institute (IPGRI) Activities in Asia, the Pacific and Oceania. Center Commissioned External Panel Review Report. IPGRI-Asia Pacific Office, Serdang, MALAYSIA.
12. 8. Wulijarni-Soetjipto, N. and B.P. del Rosario. 2001. PROSEA and Flora Malesiana. Paper presented during the 5th International Flora Malesiana Symposium, Sydney, AUSTRALIA, 9-14 Sept. 2001.
13. 9. Wulijarni-Soetjipto, N. and B.P. del Rosario. 2001. Plant Resources Information Base for Research and Utilization of Natural Products. Paper presented during the International Seminar on Natural Products Chemistry and Utilization of Natural Resources, Universitas Indonesia, Jakarta, INDONESIA, 5-7 June 2001.
14. 10. Del Rosario, B.P., I. Afandi and J. Sollivas. 2000. Plant Information in Poverty Alleviation through Education and Biodiversity Conservation in Southeast Asia. Seminar paper presented at the Asian Development Bank, 8 Dec. 2000, Manila, PHILIPPINES.
15. Del Rosario, B. P., I. Afandi and J. Sollivas. 2000. ICT and Plant Information: PROSEA Teaching and Learning Materials. Paper presented at the UNESCO-ACEID International Conference on Information Technologies in Education Innovation for Development: Interfacing Global and Indigeneous Knowledge, 12-15 Dec. 2000, Bangkok, THAILAND.
16. Del Rosario, B.P. and J. Kartasubrata. 2000. Knowledge Base of Indigenous Plant Species of Southeast Asia for Sustainable Community Development. Paper presented during the workshop on “ Critical Issues in the Process of Domesticating Indigeneous Tree Species for Improved Agroforestry Systems in the Philippines”, 5-6 Dec. 2000, TREES, College of Forestry and Natural Resources, University of the Philippines, Los Banos, Laguna, PHILIPPINES.
17. Del Rosario, B. P. and S. Riswan. 2000. PROSEA as an Information Provider on the Medicinal Plants in Southeast Asia. Paper presented during the Seminar on Indonesian Medicinal Plants, 6-7 Sept. 2000, Dept. of Pharmacy, Faculty of Mathematics and Natural Resources, University of Indonesia, Jakarta, INDONESIA.

18. Del Rosario, B. P., A. S. Argañosa and J. E. Eusebio. 1999. Intellectual Property Rights: The Philippine Case. Country paper presented during the ISAAA Intellectual Property Management Workshop, 7-13 December 1999, Bangkok, Thailand.
19. Del Rosario, B. P., C. R. Escaño, J. E. Eusebio and S. P. Tababa. 1999. Priority Setting in Agricultural Biotechnology in the Philippines: Lessons Learned. A paper presented during the ISNAR International Course on New Technologies for Agricultural Research: Managing Biotechnology in a Time of Transition, 8-20 November 1999, Tagaytay, PHILIPPINES.
20. Libroero, A. R. L., B. P. del Rosario, D. C. Cardenas, A. P. Aquino. 1999. Policy-Driven Researches or Research-Driven Policy? Insights and Experiences in Philippine Agriculture and Natural Resources Management. Resource Paper presented during the symposium on "Policy and Research Linkages in Agriculture and Natural Resources Management: In Search of the Missing Link," SEARCA, Los Baños, Laguna, PHILIPPINES.
21. Del Rosario, B. P. and M. V. Lorica. 1999. Gender Dimensions of Biodiversity Management and Food Security: The Philippine Experience. Paper presented during the FAO-MSSSRF Technical Consultation on Gender Dimensions in Biodiversity Management and Food Security, 2-5 November 1999, Chennai, INDIA.
22. Del Rosario, B. P. and R. C. Serrano. 1999. Lessons from Competitive Research Grants in the Philippines NARS. A paper presented during the Retreat of Agricultural Knowledge and Information System (AKIS) held on 23 March 1999 at the Center, Airlie Foundation, Warenton, Virginia, USA under sponsorship of the World Bank.
23. Dar, W.D., B.P. del Rosario and R.C. Serrano. 1999. Sustainable Agriculture and Resources Management (SANREM) CRSP/Southeast Asia: Scaling Up Through APAARI. A paper prepared for APAARI.
24. Del Rosario, B.P. and M.V. Lorica. 1999. Mainstreaming Gender and Development in the Philippine National Agricultural Research System (NARS): Gains and Accomplishments and Lessons Learned. Paper presented during the Pre-UNCTAD and Expert Workshop on Trade, Sustainable Development and Gender. July 12-13, 1999, UNCTAD, Geneva, SWITZERLAND.
25. Del Rosario, B.P. and M.V. Lorica. 1999. Mainstreaming Gender Concerns in the Agriculture and Forestry Sector: Its Policy Framework, Present efforts and Lessons Learned. Paper presented during the Regional Consultative Meeting/Workshop on "Towards Developing a Regional Gender Program in Agriculture, Environment and Natural Resource Management". August 2-4, 1999, SEARCA, Los Baños, Laguna, PHILIPPINES.
26. Del Rosario, B.P., C. R. Escaño and S. P. Tababa. 1998. Involvement of Stakeholders in Planning and Implementation of Plant Genetic Resources Activities at the National Level: The Philippine. Experience. Paper presented during the Regional Meeting to Promote Implementation of the Global Plan of Action for Conservation and Sustainable Use of Plant Genetic Resources for Good and Agriculture in Asia-Pacific, Manila, PHILIPPINES, 15-18 December 1998.
28. Del Rosario, B.P. 1998. The Philippine National Agricultural Resources Research and Development System: A Broadened NARS. Paper presented during the Fifth General Assembly of the APAARI and Expert Consultation on Research Management Mechanisms of NARS held in Sween, REPUBLIC OF KOREA, 13-15 October 1998.
29. Del Rosario, B. P., and M. V. Lorica. 1996. Current Status of Impact Application to Sustainable Agriculture in the Asia-Pacific Region. In. Appropriate Use of Inputs for Sustainable Agriculture Report of an APO Seminar, 27 August – 6 September 1996, Tokyo, JAPAN. Pp. 29-48.
30. Dar, W.D., B.P. del Rosario and M.V. Lorica. 1996. The Philippine NARDS: Its Activities and Experiences in Mainstreaming Gender Concerns. Paper presented during CGIAR Gender Seminar "Meeting the Technology Needs of Rural Poor Women", Washington, D.C., USA.
31. Del Rosario, B.P. and M.V. Lorica. 1996. Overview of the Gender Initiatives in the Agriculture and Forestry Sectors. Preliminary paper prepared for the Conference among Senior Women Leaders Network from APEC Economies on Gender, Trade and Investment, Manila, PHILIPPINES.
32. Ancog, A.C., B.P. del Rosario, M.V.Lorica, V. Novenario, A. Ansaldo and E. Amparo. 1996. Gender Analysis in Industrial Science and Technology Under APEC. Preliminary paper for the Conference Among Senior Women Leaders Network from APEC Economies, Manila, PHILIPPINES.
33. Del Rosario, B.P. and M.V.Lorica. 1996. Meeting Practical and Strategic Needs Through Gender Planning: Some Approaches and Tools". Paper presented during the Training Course on Gender

- Analysis in Agriculture, Forestry and Natural Resources, on 6 to 20 May, IIRR, Silang, Cavite, PHILIPPINES.
34. Del Rosario, B. P. and E. O. Brown. 1995. Productivity Techniques in the Manufacturing Sector and its Application to Agricultural Production and Processing in the Philippines. Paper presented to the APO Study Meeting on Adaptation of Productivity Techniques in Agriculture, Manila, PHILIPPINES.
 35. Del Rosario, B.P. 1993. Institutionalizing Women's Concerns in Agricultural Development: PHILIPPINES. In: Proceedings of the International Conference on Gender Concerns in Rice Farming. IRRI.
 36. Del Rosario, B.P., and T.R. Paris. 1992. Overview of the Women in Rice Farming Systems Program. IRRI Rice Research Seminar. IRRI.
 37. Del Rosario, B.P. 1992. Gender Responsive Planning: Concepts and Methodology. Presented During Training on Application of Gender Analysis FSR, IRRI.
 38. Del Rosario, B.P. and T.R. Paris. 1992. Women and Technology Development. In: Proceedings of the International Conference on Gender Concerns in Rice Farming. Chiang Mai, THAILAND. IRRI.
 39. Gapasin, D.P., B.P. del Rosario, M.V. Lorica and B. Burgos. 1991. Monitoring and Evaluation (M and E) Case 2: The Philippines. In: Highlights of a Consultation, Monitoring and Evaluation of Agricultural Research, The Hague, ISNAR. pp. 18-20.
 40. Gapasin, D.P., B.P. del Rosario, M.V. Lorica and B. Burgos. 1991. Monitoring and Evaluating Agricultural Research Program in the Philippines. ISNAR Staff Notes. 21 pp.
 41. Gapasin, D.P., B.P. del Rosario, M.V. Lorica and B. Burgos. 1990. Monitoring and Evaluating Agricultural Research Program in the Philippines. ISNAR Staff Paper, ISNAR, The Hague, the NETHERLANDS.
 42. Gapasin, D.P., Del Rosario, B.P. and M.V. Lorica. 1990. Monitoring and Evaluation in the Philippine Agricultural Research and Development System. Paper presented during the International Monitoring and Evaluation Workshop held on 12 to 15 November at ISNAR, The Hague, the NETHERLANDS.
 43. Del Rosario, B.P. 1990. Information on Technologies and their Potential for Agro-Industry Sector. Paper presented during the UNCTAD-sponsored "Workshop on Technology Transfer and Management", 2 to 15 December, Institute for Science and Mathematical Education, U.P. Diliman, Quezon City, PHILIPPINES.
 44. Del Rosario, B.P. 1990. Planning and Evaluation in the Philippine Agriculture and Resources Research System. Paper presented during the ISNAR/SEARCA/PCARRD Asian Regional Workshop on Management Information Systems for Agricultural Research, 12 to 23 November, SEARCA Headquarters, Los Baños, Laguna, PHILIPPINES.
 45. Del Rosario, B.P., and M.V. Lorica. 1989. Organization del Sistema de Investigacion Agraria en Filipinas. Enla: Conferencia Annual de Investigacion Agraria: La Investigacion En La Agricultural del Peru En La Decada Del '90. Lima, 26-27 de Octubre de 1989. FUNDEAGRO. Lima, PERU, pp. 117-149.
 46. Del Rosario, B.P. 1986. Institutionalizing Research with a Farming Systems Perspective through Team Building Approach. In: Proceedings Regional Consultative Workshop Seminar/Workshop on Farming Systems Research. SEARCA, Los Baños, Laguna, PHILIPPINES, pp. 97-102.
 47. Del Rosario, B.P., C.R. Escaño, C.A. Jones, G. Uehara. 1985. Mineral Nutrition of Maize in Benchmark Soils. In: Soil based Agrotechnology Transfer. University of Hawaii, Hawaii, USA.
 48. Farming Systems in Tharaka, Kenya: Strategies for Subsistence in a Semi-Arid Area. 1984. ICRA Bulletin, Wageningen, the NETHERLANDS. (Joint Authorship).

NATIONAL

1. Del Rosario, B.P, F. Decena, and C. Clavero. 2005. Science and Technology (Chapter 4.1 of the Agriculture 2020: Attaining Food Security, Alleviating Poverty, Achieving Global Competitiveness and Environmental Sustainability (in progress). National Academy of Science/ and Technology and PCARRD, Los Banos, Laguna, PHILIPPINES.
2. Clavero, C. and B. P. Del Rosario. 2005. Technology Forecasting: Concept notes and Operationalization in PCARRD. Ppt. Presentation for the April 2005 PCARRD Directors' Council Meeting, Los Banos, Laguna, PHILIPPINES.

3. Burgos, B. and B.P Del Rosario. 2004. Knowledge Management in PCARRD. Ppt presentation for the Nov 2004 PCARRD Directors' Council meeting. Los Baños, Laguna, PHILIPPINES.
4. Del Rosario, B. P., C. Consolacion, R. Quinones. 2003. Institutional Strengthening of the Research and Extension System of the Philippine Department of Agriculture. Consultancy report submitted to Sustainable Development Solutions for the DA-World Bank Project (Preparation Phase) "Diversified Farm Income Project", December 2003.
5. Del Rosario, B. P., A.P. Aquino, F.C. Decena, and A. Acedera. 2002. S & T Interventions for Agricultural modernization. Paper presented during the 'Follow-up Consultation among DOST Councils, RDI's, Service Institutes, and Regional Offices", March 14, 2002, PCARRD, Los Banos, Laguna, PHILIPPINES.
6. PCARRD 2001. Outstanding Filipino Women Research Managers and Scientists in the Agriculture, Forestry Sector. Volume editors: M.V. Lorica and B.P. del Rosario. Los Baños, Laguna, PHILIPPINES.
7. Del Rosario, B. P. and M. V. Lorica. 1999. DOST-PCARRD's Mainstreaming Framework and the Initiatives of the Different PCARRD-Coordinated Regional Gender Core Groups. Paper presented during the Consultation Workshop with the NCRFW in Institutional Strengthening Project (ISP) II GAD Regional Partners and the PCARRD Coordinated Regional Gender Core Groups, August 4-5, 1999, Montebello Hotel, and Cebu City, PHILIPPINES.
8. Del Rosario and C. Gloria. 1999. The Philippine S & T System: Structure, Organization and Agenda. Lecture presented during the Youth Research Apprenticeship Program of the Gamma Sigma Delta Honor Society of Agriculture. 17 May 1999. UPLB, PHILIPPINES.
9. Del Rosario, B P. and J.E. Eusebio. 1997. Agricultural Biotechnology Priority Area. Paper presented during PHILRICE seminar workshop on "Improving PHILRICE Productivity for Global Competitiveness". PHILRICE, Nueva Ecija, PHILIPPINES.
10. Del Rosario and M.V. Lorica. 1997. Mainstreaming Gender and Development in the NARRDN. Paper presented during the Mentoring Session for the NARRDN. Caleruega, Nasugbu, Batangas, PHILIPPINES.
11. Del Rosario, B.P. and V.L. Mabesa. 1996. Gender and Development Initiatives in PCARRD. PCARRD Monitor, 22 (4), Los Baños, Laguna, PHILIPPINES.
12. Del Rosario, B.P., A.R. Libroero and E.O. Brown. 1996. "Implications of the GATT-UR on the Agribusiness Sector". Paper presented during the seminar workshop on GATT and WTO: Instrument, Process and Implications, 13 to 31 May 1996, Ateneo de Manila University, PHILIPPINES.
13. Del Rosario, B.P. and M.V.Lorica. 1996. Empowering Women: What the Rotary Club of Iloilo City Can Do". Paper presented during the meeting of the Rotary Club of Iloilo City, 22 March 1996, Hotel del Rio, Iloilo City, PHILIPPINES.
14. Del Rosario, B.P. and M.V. Lorica. 1996. Policy Framework for the Gender Initiatives of PCARRD. Paper presented during the Seminar Workshop on Gender Orientations on 20 February at CLSU, PHILIPPINES.
15. Del Rosario, B.P., A. R. Libroero., and D.O. Manzanilla. 1994. The National Agricultural Research in the Philippines: Program and Systems of Technology Generations, Transfer and Commercialization. Paper presented during the Consultation Workshop on Agricultural Research, Training, and Extension, 7-8 February, ATI Building, Diliman, Quezon City, PHILIPPINES.
16. Del Rosario, B.P. and B.Burgos. 1994. Farming Systems Approaches and Rural development. Staff paper prepared for the International Symposium on Farming Systems held in Montpellier, FRANCE.
17. Del Rosario, B.P. R.P. Burgos and D.O. Manzanilla. 1994. Inter-Agency Complementation through the Regional R and D Consortia. In: Research Management Components, Volume VIII, pp. 47-63.
18. Del Rosario, B.P. and M.F. Bonifacio. 1993. Enhancing the Role of Regional R and D Consortia in Sustainable Agro-Industrial Development towards Philippines 2000. Paper presented during the PCARRD Pre-Anniversary Symposium and Joint GC and TAC Meeting on 9-10 November, E.O. Tan Hall, PCARRD, Los Baños, Laguna, PHILIPPINES.
19. Del Rosario, B.P., A.R. Maglinao, R.C. Serrano and D.O. Manzanilla. 1993. Research and Development for Sustainable Agriculture: Current Efforts and Problems. Paper presented at the Experts' Conference/Workshop on Sustainable Agriculture for the Philippines. Soils Research and Development Center, 27 to 29 July, PHILIPPINES.
20. Del Rosario, B.P. and M.V. Lorica. 1990. PROSEA Brings Lesser-Known Species into the Limelight. In: The PCARRD Monitor Volume 18, Number 6, and June 1990.

I hereby certify that the above information is true to the best of my knowledge.



BEATRIZ P. DEL ROSARIO
12 April 2013

CURRICULUM VITAE

ROWENA BARZAGA DELA TORRE - BACONGUIS, PhD

Institute of Governance and Rural Development, College of Public Affairs and Development
University of the Philippines at Los Baños
College, Laguna, Philippines 4031
Telefax: +63.49.5360407 Mobile: +63.917.8196804
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EDUCATION:

Doctor of Philosophy (*PhD*) in Extension Education, 2002
University of the Philippines at Los Baños

Master of Public Administration (*MPA*), 1998
Bachelor of Arts (*AB*) in Economics, 1989 *cum laude*
Ateneo de Davao University, Philippines

EMPLOYMENT:

Institute of Governance and Rural Development
College of Public Affairs and Development
University of the Philippines at Los Baños
Associate Professor (April 2008 to present)
Assistant Professor (June 2002 to April 2008)

Ugnayan ng Pahinungod (Oblation Corps)
University of the Philippines at Los Baños
Director (March 2010 to 2013)

Postgraduate Teaching:

CED 201 Philosophy of Education
CED 227 Administrative Theory (PhD students)
CED 240 Extension Science
CED 242 Adult Education in Agriculture
CED 244 Comparative Analysis of Extension Approaches
CED 248 Participatory Extension
CED 299 Graduate Seminar
CED 301 Philosophical Ideas in Development (PhD students)
PAF 204 Ethics in Public Affairs

Undergraduate Teaching:

EDUC 102 Theories and Principles of Education

Thesis Advising: Chair/Member of Thesis Committees for Master of Science and Doctor of Philosophy in Extension Education

Current Committee Responsibilities:

Chair, Comprehensive Examination Committee for PHD and MS, IGRD
Member, UPLB Food and Nutrition Policy Paper Committee
Member, UPLB Food and Nutrition Committee
Member, UPLB Bee Program

FACULTY AWARDS:

January-December 2010 UPLB Centennial Professorial Chair
University of the Philippines at Los Baños

March 2008, Outstanding Teacher for the Humanities and the Social Sciences
University of the Philippines at Los Baños

January 2008, Outstanding Teacher in the College of Public Affairs
University of the Philippines at Los Baños

2005 International Publication Awardee
University of the Philippines System

2011 International Publication Awardee
University of the Philippines System

Best Paper Presenter, 15th PASSAGE Conference-Workshop. Roxas City, Capiz. October 18-20,
2011, Philippine Association of Agri-vironment Educators and Entrepreneurs, Inc. (PASSAGE)

2012 College of Public Affairs Outstanding Alumna

Best Paper. Bacongus R. and J. Medina The Community Life School Model for Sustainable
Agriculture Based Rural Development. First Asia Future Conference. March 8 -10, Bangkok
Thailand

COMPLETED POSTGRADUATE RESEARCH SUPERVISION:

Mr. Vanthieng Phommasoulin; Comparative Analysis of Government and Private Sector-
Introduced Agricultural Practices of Coffee Farmers in Paksong District, Champasak Province,
Lao PDR. (Master of Science degree completed: March 2010).

Mr. Souvanthong Namvong; Farmer-Driven Approach and its Contributions to Farmer
Empowerment in the Village Extension of Lao People's Democratic Republic (Thesis: Master of
Science degree completed: September 2008).

Ms. Aleza Formento; Farmers' Participation and Benefits Derived from Two Rice Extension
Programs in Odiongan, Romblon, Philippines, Master of Science thesis research, completed
March 2011).

Mr. Phetsoulaphonh Choulatida; Extension Gaps in the Production, Postharvest and Marketing
System of Organic Rice in Santhong District, Vientiane Capital, Lao-PDR. (Master of Science
thesis research, completed June 2011 co-supervised with Martin Gummert of the International
Rice Research Institute). Awarded Best CPAf Thesis, 2012

Dr. Kuraiza Usman. Indigenous People's Participation in Formal and Non-Formal Education in
the Province of Tawi-Tawi, Autonomous Region in Muslim Mindanao (ARMM), Philippines.
Doctor of Philosophy dissertation research, completed March 2012.

Dr. Lenny Widjyanthi. Communities of Practice Among Farmer Groups in Ambulu Sub-District,
Jember District, East Java, Indonesia, April 2013

Dr. Evelie Serrano. Co-optation of Indigenous and Modern Farming Practices Among T'boli Farmers in Lake Sebu, South Cotabato, Philippines. April 2013

PREVIOUS INTERNATIONAL PROJECT WORK:

April-May/2004 Germany / Co-Facilitator, International Training Course: Training for Trainers for Capacity Development to Reduce Rural Poverty in Southeast Asia. Capacity Building International (InWEnt), Feldafing, Germany.

Speaker. Research Proposal Making. Jember University, Sumatra, Indonesia. May 2012

RESEARCH COMPLETED:

2009. Agricultural Modernization and Low Income Local Government Units: The Case of Magdalena, Laguna. Funded by the University of the Philippines Basic Research Fund.

2007. Extension Delivery System in a Livestock and Poultry-Based Farming Community: The Case of San Jose, Batangas.. Funded by the Philippine Institute of Development Studies.

2009-2010. Enhancing Sustained Adoption of Innovations: The Case of Bio-Fertilizer, Philippines. Funded by IDRC

2009-2011 Socio-Economic Component of Collaborative Research, Development and Extension Services for Food Security: The Case of Regions 4A, 4B and 5 (Study Leader, Socio-Economic Component). Funded by Bureau of Agricultural Research, Department of Agriculture, Philippines.

2009-2011. Enhancing Integrated Rice-based Production through Grassroots Life School Education. Sustainable Development and Utilization of Resources Program for Rice-Based Agroecosystems (Study Leader). Funded by Philippine Rice Research Institute.

ON-GOING RESEARCH:

2010-2012. Supporting Bio-Technology Regulatory Policy Processes in Southeast Asia (Study Leader, Extension Component). Funded by International Development Research Center.

ON-GOING UPLB FUNDED EXTENSION PROJECT:

2010-2012. Co-Study Leader. Training on Strengthening Agricultural Development Planning and Governance for Food Security. Funded by the Agricultural Training Institute

2010-2012. Co Project Leader. Pamayanang Lingap Aral Educational Enhancement Project. Funded by Chevron Inc.

PAPERS PRESENTED (Name as paper presenter highlighted):

Baconguis, R. Medina, J. R. Briones and E. Mamino. Locating Participation in a Community Based Forest Resources Management. International Conference on Interdisciplinary Research and Development. Maejo University. Chiang Mai Thailand. August 8 – 13, 2013

Baconguis, R. Medina, J. R. Briones and E. Mamino. Locating Participation in a Community Based Forest Resources Management. International Conference on Interdisciplinary Research and Development. Maejo University. Chiang Mai Thailand. August 8 – 13, 2013

Baconguis, R. Community Engagement: Sustainability and Research Challenges. Restoration Ecology Society of the Philippines –Saving the Cordillera Ecosystem Inc. 3rd National Conference. UP Baguio. April 10-13, 2013.

Malabayabas, F. V. Milar, R. Lopez, S. Phanapaipong, *and R. Baconguis*, UP Los Baños. Building resilience against extreme weather events: the case of barangay Malinta, , Los Baños, Laguna Restoration Ecology Society of the Philippines –Saving the Cordillera Ecosystem Inc. 3rd National Conference. UP Baguio. April 10-13, 2013.

Medina, J *and Baconguis R.* The Community Life School Model for Sustainable Agriculture Based Rural Development. First Asia Future Conference. March 8 -10, Bangkok Thailand

Medina, J.R.¹, Espaldon, J.L.L.O.², Manlubatan, M.B.T.³, Lubuguin, G.S.⁴, and R.D.T. Baconguis⁵ 2013. Promotion of Organic Agriculture: Experiences in Negros Occidental. The 2nd International Symposium Environmental-Friendly Agriculture based on Community Resources: A Strategy for Sustainable Development and Biodiversity College of Arts and Sciences, The University of Tokyo, Japan, March 1, 2013 to March 6, 2013

Baconguis, R. Medina J and Briones R. Encouraging participation in forest resources management. 8th Network of CALABARZON Educational Institutions Inc. Research Forum. De La Salle Lipa. February 27, 2013

Baconguis, R. J. Medina and R. Rola. Mainstreaming Palayamanan in the Extension System. 2012 Annual Rice Forum. Asia Rice Foundation. November 27, 2012. Traders Hotel, Manila

Penalba, L., E. Dumanays and **Baconguis, R.** Adoption Determinants of Genetically Engineered Corn Varieties in the Philippines. 10th GLOBELICS International Conference. Hangzhou, China. November 9 – 11, 2012.

Medina, J and Baconguis R. 2012. Participatory Sustainable Farming Practice as a Strategy in Promoting Agro-Eco Cultural Tourism in Calautit, Busuanga, International Pest Summit 2012. Pest Control Association of the Philippines. October 24-26, 2012. Boracay.

Baconguis, R. MS Ebio, JL Espaldon and GS Lubuguin. Plenary Speaker. The Continuing Challenge of Scholarship of Engagement. Community Development Plenary Speaker for the 4th Conference of the Community Development Society of the Philippines. UP Diliman. October 22-24, 2006.

Penalba, L. and **Baconguis, R.** A Comparative Analysis of the Adoption and Diffusion of Bio-innovation Technologies: The Case of Bio-fertilizers and Genetically Modified Seeds. 9th AsiaLics International Conference, Philippines. October 4-5, 2012

Baconguis R., L. Penalba, D. Elazegui and E. Dumayas. The Role of Agricultural Public Extension in a Private Led Technological Innovation. International Conference on Public Policy and Governance. Indian Institute of Science, Bangalore. September 4 – 6, 2004

Medina. JR and **Baconguis R.** The Community Life School Model. 14th Shared Growth Seminar of the Sekiguchi Global Research Association. University of the Philippines. Diliman. April 26, 2012.

Lalap B. and **Baconguis R.** Organizational challenges in ensuring a healthy community: experiences from two local government units, 15th PASSAGE Conference-Workshop. Roxas City, Capiz. October 18-20, 2011

Penalba, L and **Baconguis, R.)** Role of Public Research Institutions in the Philippine Agricultural Innovation System. 8th ASIALICS International Conference. Hanoi, Vietnam. 7 – 9, July 2011

Louis Lebel, Eun Jeong Ma, Sunita Sungar, *Rowena Baconguis*, Linda Penalba, Juthathip Chalermphol, and Geeta Bahtra Bastakoti. International Conference on Sustainability Transitions. Lundt University. Sweden. 13-15 June 2011

King, E. R.T. *Baconguis*, A.D. Raymundo and T.U. Dalisay. Occurrences of Stem Canker (*Phytophthora palmivora* Butl.) and Stem Borer (*Batocera rufomaculata* De Geer.) in Durian (*Durio zibethinus* L.) in the Coastal Areas of Cambodia. 4th Asian Conference on Plant Pathology. Darwin, Australian. 26-29 April 2011.

L. M. Penalba, M.M. Paunlagui, **R.T. Baconguis** . Enhancing Sustained Adoption of Innovations: The Case of Bio-Fertilizer, Philippines. 10th Innovations and Technology Conference. University of Malaya, Putra Jaya, Malaysia. January 9 -11, 2011.

Baconguis R.), G., A. Moraca, N. de la Paz, G. Lubuguin and J. Medina. Partnership for Community Development. 2nd Asia-Pacific Regional Conference on Community Development. 20-22 October 2010. SEARCA UP College, Los Banos, Laguna

Lubuguin, G. R. Baconguis, and J. Medina Service Culture: Maximizing the Gains of NSTP and CSR as Legal and Social Institutionalization of Public Service and Volunteerism. 2nd Asia-Pacific Regional Conference on Community Development. 20-22 October 2010. SEARCA UP College, Los Banos, Laguna

Baconguis, R.T . Implementing Agricultural Development Programs: Lessons from a Fifth Class Municipality. 3rd National Symposium on Agriculture, Fishery, Forestry and Natural Resources Extension. October 13-14, 2009. Heritage Hotel, Manila, Philippines.

Baconguis, R.T. Combining Action and Learning in a Class: Reflections in Teaching Participation. 14th Philippine Association of Agri-Vironment Educators and Entrepreneurs Inc (PASSAGE) Biennial Conference. September 30-October 2, 2009, Pranjetto Hills and Conference Center, Tanay, Rizal, Philippines.

Baconguis, R.T. Managing Agricultural Extension for Rural Development. First Asia Pacific Regional Conference on Community Development, May 7-8, 2009, University of the Philippines, Diliman, Quezon City, Philippines.

Baconguis, R.T. Knowledge Creation: A Platform for Reforming Extension Practice. 5th International Conference on Developing Real-Life Learning Experiences, August 2-3, 2007, King Mongkut's Institute of Technology, Ladkrabang, Thailand.

Cardenas, V.R., E. Sulabo, **R. Baconguis**, Y. Mendoza, E. Talatayod, F. Tan and L. Domingo. Strengthening of Devolved Extension Service through the Community-Based Participatory Extension Management (CBPEM) Approach. 44th Philippine Economic Society Annual Meeting, November 21-22, 2006, Central Bank of the Philippines, Manila, Philippines.

Cardenas, V.R., E. Sulabo, **R. Baconguis**, Y.B.D Mendoza, E. Talatayod, F. Tan and L. Domingo, Community-Based Participatory Extension Management and Empowerment: Institutionalization and Scaling Up: Good Practices: Institutional Development 18th International Symposium of the International Farming Systems Association: A Global Learning Opportunity, October 31-November 3, 2005, Rome, Italy.

Ponce, E.R. and **R.T. Baconguis**. Keeping Agriculture Moving: Lessons in Agriculture Extension from Five Municipalities. First National Policy Extension Conference, December 1-2, 2005, Philippine Institute of Development Studies, Makati City, Philippines.

REFEREED JOURNAL PUBLICATIONS (From most recent)

Baconguis, R., L. Peñalba and M. Paunlagui. 2012. Mapping the Innovation System of Biofertilizers: Constraints and Prospects to Enhance Diffusion. *American-Eurasian J. Agricultural & Environmental Sciences* 12(9):1185-1195. (ISI-Listed Publication).

Lalap, B and **R. Baconguis**. 2012. Governance Concerns in the Provision of Nutrition Programs: Experiences from Two Local Government Units. *USM R &D Journal* 20(1):65–81.

Baconguis, R. 2012. The Dynamics of Agricultural Extension in a Low Income Municipality: The Case of Magdalena, Laguna, Philippines. *American-Eurasian Journal of Agricultural and Environmental Sciences* 12(7):872–885. (ISI-Listed Publication)

Phommasoulin, V, **R.T. Baconguis**, J.T. Dizon and S.B. Jamias. 2009. Comparative Analysis of Coffee Farming Practices Introduced by Government and the Private Sectors in Paksong District, Champasak Province, Lao PDR. *Silliman Journal*. 50(1) (ISI Listed Publication) (printed in 2012)

Namvong, S and **R T Baconguis**. 2010. The Farmer-Driven Approach and its Contributions to Farmer Empowerment in the Village Extension System of Lao-PDR. *Middle East Journal of Scientific Research* 6(2):108–116. (ISI-Listed Publication)

Baconguis, R.T. 2009. Reflections in Instituting Experiential Learning in a Graduate Class. *USM R&D Journal* 17(2):211-214.

Ponce, E.R., **R.T. Baconguis**, R.F.D. Hondrade, A.M. Mascariñas, E.B. Saz and M.A.T.W. Tabada. 2009. Keeping Agriculture Moving: Lessons in Agriculture Extension from Five Philippine Municipalities. *USM R&D Journal* 17(2):161-169.

Baconguis, R.T. 2007. Capitalizing on Organizational Knowledge: Imperatives for Decentralized Agricultural Extension Systems. *Silliman Journal* 48(1):63-74. (ISI Listed Publication)

Baconguis, R.T. 2007. Rising to the Challenge: Exploring Options for Decentralized Extension Organizations. *USM R&D Journal* 15(2):181–189

Baconguis, R.T. and F.A. Cruz. 2005. Paradigmatic Outlook of Alternative and Conventional Rice Farmers in Southern Philippines. *The Philippine Scientist* 42: 15-39. (ISI-Listed Journal)

Baconguis, R.T. and F.A. Cruz. 2004. Approximating the Adoption and Diffusion of Alternative Agriculture in a Rice Farming Community at M'lang, Cotabato, Philippines. *USM R & D Journal* 12(2): 178-183.

Baconguis, R.T. and F.A. Cruz. 2004. Perspectives of Alternative and Conventional Farmers on "Sustainable Agriculture" in Southern Mindanao, Philippines. *Journal of Environmental Science and Management*. 7(2): 14-28.

Ponce, E.R., **R.T. Baconguis**, R.F.D. Hondrade, A.M. Mascariñas, E.B. Saz and M.A.T.W. Tabada. 2009. Keeping Agriculture Moving: Lessons in Agriculture Extension from Five Philippine Municipalities. *USM R&D Journal* 17(2):161-169.

POSTER PRESENTATION

Tho, K.E., L. K.Llorin, E. Serrano, K. Teves and **R. Baconguis**. Environmental Consequences and Pollution Control Options of Backyard Hog Raising: Participatory Research in Barangay Balimbing, Nagcarlan, Laguna, Philippines. 2nd Asia-Pacific Regional Conference on Community Development. 20-22 October 2010. SEARCA UP College, Los Banos, Laguna

Baconguis, R. 2007. Extension System in a Swine and Poultry Based Municipality. PIDS Extension Policy Seminar. NEDA Building

PROCEEDINGS IN A CONFERENCE

Role of Public Research Institutions in the Philippine Agricultural Innovation System. Penalba, L and **Baconguis, R.**) 8th ASIALICS International Conference. Hanoi, Vietnam. 7 – 9, July 2011

L. M. Penalba, M.M. Paunlagui, **R.T. Baconguis** . Enhancing Sustained Adoption of Innovations: The Case of Bio-Fertilizer, Philippines. 10th Innovations and Technology Conference. University of Malaya, Putra Jaya, Malaysia. January 9 -11, 2011.

Baconguis, R. D.T. 2010. Managing Agricultural Extension for Rural Development. Proceedings of the First Asia Pacific Regional Conference on Community Development. May 7-8, 2009. UP Diliman

Baconguis, R.T. Knowledge Creation: A Platform for Reforming Extension Practice. 5th International Conference on Developing Real-Life Learning Experiences, August 2-3, 2007, King Mongkut's Institute of Technology, Ladkrabang, Thailand.

Baconguis R.), G., A. Moraca, N. de la Paz, G. Lubuguin and J. Medina. Partnership for Community Development. 2nd Asia-Pacific Regional Conference on Community Development. 20-22 October 2010. SEARCA UP College, Los Banos, Laguna

MODULES WRITTEN

Baconguis, R. 2011. Formulating Objectives in Literacy Training Service. In NSTP Manual 1 Copyright Ugnayan ng Pahinungod.

Baconguis, R. 2011. Water Management in NSTP Common Modules. In NSTP Manual 2. 2011 . Copyright Ugnayan ng Pahinungod.

MANUAL WRITTEN

Baconguis R., and MS Ebio. Reading Comprehension Enhancement Program for Primary Students: A Volunteer's Manual. 125 pages For copyright, Ugnayan ng Pahinungod

BOOK CHAPTER CONTRIBUTION

College of Public Affairs. 2011. Science and Technology Policy in Towards and Integrative Research Agenda for Public Affairs and Development. Copyright CPAf UPLB

College of Public Affairs. 2011. Institutions, Governance and Delivery Systems in Towards and Integrative Research Agenda for Public Affairs and Development. Copyright CPAf UPLB

College of Public Affairs. 2012. Policy Perspectives for Food Self-Sufficiency at the Regional Level. Copyright CPAf UPLB Agenda for Action for Food Self Sufficiency at the Regional Level Agnes C. Rola, Rowena dT. Baconguis and Ma. Ana T. Quimbo

College of Public Affairs. 2012. Partnership for food Security. 2012 Copyright CPAf UPLB
Chapter 10: Rice Farmer's Production Practicers and Services in Southern Tagalog and Bicol Regions(Baconguis, R. E. Sulabo, E. Dumayas, M. Nguyen, MJ Rabang and and SM Estareja,
Chapter 11. Agricultural Sector Performance in Albay(D.J. Lalican, R Baconguis, JP tagarino, E Abiucay, R. Badayos and ZM Estareja)**Chapter 12.** Agricultural Sector Performance in Camarines Sur. H Natural, JR Medina, R. Egle, RDT Baconguis, E. Abucay, R Badayos and S Estareja)**Chapter 19.** Overview of Regional Partnership/ W Carada, JV Querijero, M. P aunlagui, M. Amit. R. Baconguis, MA quimbo, JR Medina and M. Umali

POLICY PAPER WRITTEN

Quimbo M.A and Baconguis RDT. 2011. Achieving Food Security Goals through Strengthened Extension System in State Universities and Colleges

Camacho, J.V. and Baconguis RDT 2011. Harnessing Human Resource Development in Agriculture and Enhancing Farmer's Human Capital. In UP System Policy Paper Award of Dr. Rey Velasco and Dean Rola

MEMBERSHIP IN HONOR SOCIETIES

Gamma Sigma Delta – The Honor Society of Agriculture, 2002
Pi Gamma Mu International Social Science Honor Society, 2003
Phi Kappa Phi International Honor Society, 2003

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

Asia Pacific Educators Association for Agriculture and Environment (APEAEN)

National Research Council of the Philippines (Regular member, Division of Governmental, Educational and International Policies)

Philippine Extension Network (PEN) (National Secretary, 2004-2008), Board Member (2009-2012, Secretary 2012 - 2014)

Philippine Association of Agri-vironment Educators and Entrepreneurs, Inc. (PASSAGE)

UPLB College of Public Affairs Alumni Association (President, 2006-2008)

Secretary, ICE-Student Association (now CPAf Graduate Student Association), 1999 - 2001

SELECTED PREVIOUS ACADEMIC AWARDS RECEIVED

2009. Academic Award. (highest grade point average for CPAf graduates, 1.084)
College of Public Affairs, UPLB

1989. Cum Laude

Most Outstanding Social Science Graduate

(Organized Tutorials and served as Tutor for Calculus for Social Science Students and served as President of All Class Presidents and Vice President of the Student Council of Ateneo De Davao University), Ateneo De Davao University

1985. Valedictorian

Mercury Drug Award for Excellence in Science

Mercury Drug Award for Excellence in Math

Outstanding Girl Scout

ULS-University of Southern Mindanao, Kabacan, Cotabato