# CURRICULUM VITAE


**NAME:** Manuel Celiz Palada, Ph.D.

**DATE:** 22 March 2010

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**BIRTH PLACE/DATE:** Bacolod City, Philippines/September 26, 1944

**MARITAL STATUS:** Married, Wife: Elisa Hortelano Palada

**CITIZENSHIP:** United States of America

**EDUCATION:**

Ph.D. Horticultural Sciences-Vegetable Crops, University of Florida, Gainesville, FL. 1980.
M.Sc. Agronomy, University of the Philippines at Los Banos, Laguna, Philippines, 1970.
B.Sc. Plant Science, Central Philippine University, Iloilo City, Philippines, 1966.
Salutatorian, Class 1961, Negros Occidental High School, Bacolod City, Philippines.

**MAJOR AREAS OF INTEREST:**

Field and vegetable crops production
Sustainable agricultural systems
Farming systems research/extension/training
Organic/Ecological agriculture
Agroforestry systems
Multiple cropping/cropping systems
Small farm development
Microirrigation
Indigenous and specialty vegetable crops, herbs and spices
Medicinal and aromatic plants/herbs
Urban and peri-urban agriculture
Post-harvest handling of fruits and vegetables

**EMPLOYMENT RECORD AND POSITIONS HELD:**

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| Feb 2010 to date: | **Visiting Professor & Professor Emeritus**<br>College of Agriculture, Resources & Environmental Sciences<br>Central Philippine University, Jaro, Iloilo City, Philippines. |
| Feb 2010 to date: | **President & Chief Executive Officer**<br>Farm Systems International Organization<br>2F Dr. J. Lenwood Edge Building<br>Central Philippine University<br>Lopez Jaena St., Jaro, Iloilo City, Philippines 5000 |
| Mar 2004-Sept 2009 | **Crop & Ecosystem Management Specialist and Head, Crop & Ecosystem Management Unit, AVRDC**-The World Vegetable Center Shanhua, Tainan, TAIWAN, ROC |
| June 2006 to date: | **Research Professor-Emeritus**, University of the Virgin Islands, St. Croix, U.S. VIRGIN ISLANDS (USVI). |
| Apr 2003-2006 | **Research Professor,** Agricultural Experiment Station, University of the Virgin Islands, St. Croix, U.S. VIRGIN ISLANDS (USVI). |
| May 2002 to Sept 2004 | **Courtesy Associate Professor**, School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, Florida. |
| Sept 2000 to Dec 2001 | **Visiting Scientist** (Sabbatical), Program 2: Year-Round Vegetable Production Systems, Asian Vegetable Research and Development Center (AVRDC), Shanhua, TAIWAN. |

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| Oct 1998 to Sep 2001 | **Assistant Director**, Agricultural Experiment Station, University of the Virgin Islands, St. Croix, U.S. VIRGIN ISLANDS (USVI). |
| Oct 1996-Mar 2003 | **Research Associate Professor**, Agricultural Experiment Station, University of the Virgin Islands, St. Croix, USVI |
| May 1991-Sept 1996 | **Research Assistant Professor**, Agricultural Experiment Station, University of the Virgin Islands, St. Croix, USVI |
| Oct 1989-Aug 1990 | **Agronomist and Technical Advisor**, USAID/PVO/NGO Low Resource Agriculture Project, Center for Agriculture and Rural Development, Cuttington University College, Suakoko, Liberia, WEST AFRICA. |
| May 1984-Jun 1989 | **Senior Agronomist**, The International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, WEST AFRICA. |
| Mar 1981-Apr 1984 | **Research Scientist**, Rodale Research Center, Kutztown, Pennsylvania, U.S.A. |
| Mar 1980-Feb 1981 | **Post Doctoral Research Fellow**, Organic Gardening and Farming Research Center, Kutztown, Pennsylvania, U.S.A. |
| Sept 1976-Mar 1980 | **Rockefeller Foundation Graduate Research Fellow**, University of Florida, Gainesville, Florida, U.S.A. |
| May 1973-Aug 1976 | **Senior Research Assistant**, The International Rice Research Institute (IRRI), Los Banos, Laguna, PHILIPPINES. |
| Dec 1970-Mar 1973 | **Assistant Professor**, College of Agriculture, Central Philippine University, Iloilo City, PHILIPPINES. |
| Oct 1968-Nov 1970 | **Research Scholar**, The International Rice Research Institute, Los Banos, Laguna, PHILIPPINES. |
| Nov 1966-Sept 1968 | **Instructor**, College of Agriculture, Central Philippine University, Iloilo City, PHILIPPINES. |

**QUALIFYING EXPERIENCE**:

Forty five years of field research and teaching experience in alternative methods of agricultural production for both irrigated and rainfed farming systems. Extensive work done in the tropics and subtropics, developing appropriate crop production systems with applications to small farms.

Familiar with many agronomic and horticultural crops. Field research and production experience on agronomic crops including rice, maize, sorghum, wheat, rye, barley and oats; tropical and temperate legumes including mungbeans, cowpeas, pigeonpeas, peanuts, soybeans, clover, vetches and alfalfa; root and tuber crops such as cassava and sweet potato; and a variety of tropical and temperate vegetable crops including herbs and spices.

Experienced in extension, introducing new cropping techniques for maximizing production and maintaining soil fertility and productivity. Experienced in on-farm research, developing, designing and testing improved technologies for rapid transfer and adoption by resource-limited farmers. Extensive on-farm research work done in Asia on rice-based cropping systems and sustainable vegetable production systems; and in West Africa on mixed cropping under shifting cultivation, bush-fallow farming systems, agroforestry and alley cropping, rice-based cropping systems in inland valley swamps and low resource upland rice production systems. Fifteen years research and development experience on horticultural crop production (fruits and vegetables); and farming systems in small island nations in Eastern Caribbean Basin. Three years experience in Pacific Island nations – Solomon Islands.

Experienced in teaching college and graduate level courses in plant science, agronomy, horticulture and soil science. Conducted training courses in crop production, multiple cropping, cropping systems, on-farm research and extension, and organic farming.

Visited and observed farming systems in Afghanistan, Australia, Barbados, Belgium, Cambodia, Cameroon, Canada, Chad, China, Dominican Republic, Fiji, Ghana, Grenada, Guinea, Honduras, India, Indonesia, Ivory Coast, Jamaica, Japan, Kenya, Korea, Lao PDR, Liberia, Malaysia, Martinique, Mexico, Nigeria, Philippines, Puerto Rico, Rwanda, Sierra Leone, Singapore, Somalia, Solomon Islands, St. Lucia, Taiwan, Tanzania, Thailand, Trinidad, Uganda, Vietnam and Zaire. Fifteen years working experience in the Philippines, seven years in North Florida and Pennsylvania, six years in West Africa (Nigeria, Sierra Leone and Liberia), three months in East Africa (Kenya, Rwanda, Somalia, Tanzania, Uganda), thirteen years in the Caribbean (Virgin Islands) and eight years in Taiwan.

**CONSULTING EXPERIENCE**:

1. AVRDC – The World Vegetable Center, Shanhua, Tainan, **Taiwan** AVRDC Sub-regional Center for **West and Central Africa, Bamako, Mali**. November 1 to December 31, 2009. As Horticulturist and Microirrigation Specialist I provided technical support and assistance to the project titled: Affordable Microirrigation (AMIV) Technologies for Sustainable Vegetable Farming in West Africa (Niger, Burkina Faso, Mali). Specific duties included the following:

a) Review and assess the range of technology types and prototypes of microirrigation used for vegetable production in selected project targeted sites in four countries.
b) Assist the Agricultural Economist on comparative assessment study of the AMIV technologies during field visit and analysis of field data after the field survey.
c) Assist the Agricultural Economist in organizing a regional training workshop on

"Affordable Microirrigation Based Vegetable (AMIV) Technology" in Niamey (9-11 November 2009).

d) Present a thematic paper on "Experiences and Lessons Learned by AVRDC in Promoting AMIV Technologies in Asia" at the project planning meeting in Niamey 9-11 November).
e) Take a lead role in conducting a day of training session on "Adaptation of AMIV Technology and its Field Application" including lectures on issues like improved practices and techniques of vegetable cultivation under microirrigation scheme.
f) Develop a detailed on-farm research trial protocol for setting up the various AMIV technology trials, train project partners from NGOs and NARES on data collection and analysis; and write reports on results of various field trials.
g) Prepare a publishable workshop proceeding of the Niamey training workshop.
h) Write a project report to the donor and a journal paper on "Situation Assessment of AMIV in West Africa.

2. Development Alternatives, Inc./Department of Agriculture/Asian Development Bank, Manila, **Philippines**. July 15, 1997 to February 15, 1998. Philippine Grains Sector Development Project. Scope of work includes: 1) assess the current levels of technologies, and need and viability for improved technology, identify deficiencies and bottlenecks that impede the generation and adoption of improved technologies for grains production, distribution, post-harvest and processing, and recommend relevant subsector incentives, policy changes and institutional strengthening to enhance the grains sector; 2) assess the government's past and present plans and programs for increased grain production, increase in productivity and food security, and evaluate their performance and viability, including how these programs are perceived by the small and large farmers, and their effect on rural income generation, employment, environment and agricultural diversification; 3) examine the scope and impact of increase in production and productivity under rainfed conditions vis-a-vis irrigated farming; 4) assess the functions, roles and performance of Department of Agriculture/Local Government Units (DA/LGUs) and the state universities and colleges in research, training and extension and make recommendations, taking into account the devolution of responsibilities and identify functions which could be efficiently carried out by the private sector; 5) review the government's justification and rationale for selection of Key Production Areas (KPAs), and identify potential KPAs to be assisted under the program; 6) based on the above, and realistic targets for increased grain production and productivity improvement, project the R&D requirements, supply of inputs, credit, and extension needs of the grain sector, recommend the institutional strengthening required to implement the targets, or propose alternative modalities, for example, through NGOs and private sector; and 7) consolidate the findings and recommendations of the domestic consultants on rice and corn, and prepare in conjunction with other members of the team and in consultation with all parties involved, a comprehensive proposal for the improvement of the performance of the grains sector. The proposal includes technical details, credit requirements, environmental impact, investment and operational costs estimates for capital investments and institutional strengthening, including technical assistance and training.

2. Appropriate Technology, International (ATI)/Appropriate Technology, **Uganda** (ATU)/ACDI/VOCA/USAID, Kampala, Uganda, May 25 to June 25, 1997. Evaluated ATU/PL480/USAID project on farmer participatory research and extension on oilseed production in Northern Uganda in terms of progress and impact on small farm productivity and income of small farmers. Evaluated sunflower production, processing and utilization including farmers' assessment of the project. Identified major and minor constraints to project implementation and farming systems as a whole. Assisted in workshop for preparing strategic plan and proposal for the succeeding phase of the project. Formulated recommendations based on constraints and opportunities identified.

3. Directorate of Research, Ministry of Agriculture/World Bank, Mogadishu, **Somalia**, November 25 to December 18, 1990. Reviewed project proposal of the Ministry of Agriculture on large-scale composting using banana and sugarcane crop residues with respect to its relevance, sustainability and economic viability to Somalia agriculture. Proposed an adaptive research and extension program with corresponding budgetary requirements for the utilization of compost for the major food and horticultural crops. Assisted the Directorate of Research and the Agricultural Extension Project in planning and conducting a seminar and workshop in organic fertilization and served as resource person.

4. Kenya Agricultural Research Institute/World Bank, Nairobi, **Kenya,** September 3-23, 1990. Provided technical advice to Kenya Agricultural Research Institute (KARI) in program formulation, priority setting, budgeting procedures, project proposal preparation and strengthening research-extension linkages among the regional research centers. Assisted the regional research centers in organizing seminar workshops in research-extension linkages, farming systems approach to research and extension programs.

5. The World Bank, Resident Mission in Eastern Africa, Nairobi, **Kenya**, August 26 to September 2, 1990. Evaluated organic fertilization and composting projects in Western Kenya as to their technical feasibility, economic viability and sustainability.

6. The Experiment in International Living/USAID, Monrovia, **Liberia**, October 1989 to April 1990. Advised project participants of PVO/NGO Low Resource Agriculture Project in Liberia on issues relating to labor productivity and biological sustainability of low resource agricultural systems in Liberia, with specific emphasis on the identification of limitations imposed by soils and other agroecological conditions, and biological and cultural practices such as crop rotation, intercropping, relay cropping and land preparation that can address problems faced by low-resource farmers.

7. Tanzania Agricultural Research Organization/USAID, Dar Es Salaam, **Tanzania**, October-November 1983. As a principal trainer, I conducted a training workshop on resource efficient farming methods. Workshop/training course involved classroom teaching and experience on resource efficient farming techniques such as composting, green manuring, manure handling and management, intercropping and alley cropping for national agricultural research institutes and extension centers.

**RESEARCH AND DEVELOPMENT EXPERIENCE:**

1. **Crop & Ecosystem Management Specialist**, AVRDC-The World Vegetable Center, **Taiwan**, March 2004 to date. Conducts research projects on year-round/peri-urban vegetable production systems, drip irrigation, organic vegetable production, post-harvest handling and evaluates improved crop management systems for small-scale vegetable systems in developing countries in Asia.

2. **Courtesy Associate Professor**, School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, **Florida**, May 2002 to September 2004. Participates in program activities of the School of Forest Resources and Conservation in terms of advising graduate students in their thesis research and conducting collaborative research in agroforestry.

3. **Visiting Scientist**, Asian Vegetable Research and Development Center, **Taiwan**, Sept. 2000 to December 2001. On sabbatical leave I conducted research studies on off-season vegetable production and tropical leaf vegetables under Program II-Year-round Vegetable Production Systems at AVRDC. The research focused on improving crop management practices for minor and indigenous tropical leaf vegetables and the influence of these practices on nutritional quality. The research on off-season vegetable production emphasized tomato production during the hot wet season. I also conducted training courses on sustainable vegetable production systems in Thailand while on sabbatical leave and participated as resource person on workshop in peri-urban vegetable production in Southeast Asia. During the second half of my sabbatical, I participated in the training workshop on off-season vegetable production in South Vietnam.

4. **Research Associate Professor**, University of the Virgin Islands Agricultural Experiment Station, **U.S. Virgin Islands**, October 1996 to June 2001. My major responsibility is to conduct field and greenhouse experiments on vegetable crops in the area of microirrigation, variety evaluation, improved field production of herbs and root crops, alley cropping, agroforestry and legume rotations. Research is focused for application to small farm systems in the Caribbean region. Emphasis is given on soil and water conservation through improving and maintaining soil fertility and efficient use of water in vegetable production.

5. **Research Assistant Professor**, University of the Virgin Islands Agricultural Experiment Station, May 1991 to Sept 1966. My major responsibility is to conduct field and greenhouse experiments on vegetable crops in the area of microirrigation, variety evaluation, improved field production of herbs and root crops, alley cropping, agroforestry and legume rotations. Research is focused for application to small farm systems in the Caribbean region. Emphasis is given on soil and water conservation through improving and maintaining soil fertility and efficient use of water in vegetable production.

6. **Agronomist and Technical Advisor**, USAID/PVO/NGO Low Resource Agriculture

Project, Center for Agriculture and Rural Development, Cuttington University College, Suakoko, **Liberia**, 1989-1990. As agronomist and advisor, I organized and conducted on-farm diagnostic surveys of pilot villages in the project area to describe low resource farmers, identify major constraints to agricultural productivity and opportunities for improvement of farming systems based on shifting cultivation. I supervised a team composed of soil scientist, economist, sociologist and research technicians. I conducted training workshops on low resource agriculture with participants from local NGOs and PVOs in Liberia.

7. **Agronomist**, International Institute of Tropical Agriculture, Ibadan, **Nigeria,** 1984-1989. As senior agronomist, I contributed to the development of on-farm research methodologies for West and Central Africa. As member of the On-Farm Research Unit under the Farming Systems Program, I worked with a team of scientists including soil scientist, weed specialist, plant breeder, and economist in collaboration with national research and extension programs on the evaluation of appropriate technologies for small-scale farmers. I provided leadership role in Rice-Based Systems Working Group composed of eight multidisciplinary scientists. I contributed to the selection and setting up of outreach research sites in Nigeria, Sierra Leone and Zaire, establishing collaborative research projects and agronomic studies. These sites were used for adapting improved crop production technologies compatible with the region's bio-physical and socioeconomic environments. I conducted exploratory/diagnostic surveys in pilot villages selected for on-farm research. These surveys were used as bases for designing appropriate on-farm experiments to address production constraints identified in the surveys. Technologies tested for on-farm research included improved crop varieties, fertilizer, weed management, alley cropping and intercropping. I conducted field and on-farm research on rice-based cropping systems in inland valley swamps and on low resource upland rice production systems in shifting cultivation, bush fallow farming systems, alley cropping and agroforestry. During my five years work at IITA I provided technical support to research and training programs on farming systems in Nigeria, Sierra Leone, Liberia, Guinea, Ivory Coast, Cameroon, Chad, Rwanda and Zaire.

8. **Research Scientist**, Rodale Research Center, Kutztown, **Pennsylvania**, 1981-1984. My responsibility was to coordinate the research program in horticulture involving greenhouse, field and laboratory research in vegetable crops and low-input/regenerative cropping systems. I conducted field experiments on evaluating the potential of Oriental vegetables for northeastern U.S., use of green manures in vegetable crop rotation, composting, mulching and use of legume cover crops for soil improvement. I provided technical advice to area growers on home gardening, composting and erosion control. During my last year of work I coordinated the special projects in international agricultural development and training programs. I organized training courses in regenerative farming systems for U.S. Peace Corps volunteers and supervised three summer interns.

9. **Post Doctoral Research Fellow**, Organic Gardening and Farming Research Center, Kutztown, **Pennsylvania**, 1980-1981. As research fellow, I studied and analyzed the productivity and efficiency of a model commercial organic crop/livestock farm using a farming systems research approach. The result of this study was used as a model for other studies that followed on sustainable agriculture in the U.S. My additional research involved developing

alternative and resource efficient cropping systems. I conducted agronomic experiments on overseeding of legume cover crops on corn and soybean and on sod intercropping of alfalfa and corn.

**TEACHING EXPERIENCE:**

1. Trained faculty of agriculture at Nangarhar University, Jalalabad, **Afghanistan** on field plot techniques for conducting agronomic trials for vegetable crops.

2. Presented lectures on chili pepper production and post-harvest practices for 20 participants from Ministry of Agriculture, Accra, **Ghana.** Training workshop was held in Accra, Ghana.

3. Delivered lectures on sustainable vegetable production systems for 25 participants from Southeast Asia attending a training course on Vegetable Production, Research and Extension at AVRDC Asian Regional Center, Kamphaengsaen, Thailand. Visited organic vegetable farms in Thailand. Presented training lectures on off-season vegetable production for 50 participants in Ho Chi Minh City, **South Vietnam**.

4. Taught undergraduate level courses on natural science and biology at the University of the **Virgin Islands**, Division of Mathematics and Science.

5. Taught a course on low resource agriculture for PVOs and NGOs in **Liberia**. Delivered training lectures for short courses in crop production and farming systems at IITA, Nigeria. These training courses included rice, maize, grain legumes, on-farm research methods, and alley cropping. Participants and trainees came from national research and extension programs in West and Central Africa.

6. Supervised research projects of in-service trainees and graduate students from West African countries at IITA, **Nigeria**.

7. Conducted a training course in on-farm research methods for national programs in **Nigeria** and **Sierra Leone**.

8. Presented lectures in a training course on regenerative farming methods for U.S. Peace Corps volunteers at Rodale Institute, **Pennsylvania.**

9. While a graduate student at the University of **Florida**, I delivered a lecture series on vegetable production systems in the tropics for undergraduate course of World's Vegetables.

10. At **IRRI, Philippines**, I coordinated a six-month training course in multiple cropping and cropping systems in the tropics for participants from Southeast Asia. Training lectures covered rice and field crop production, intercropping and mixed cropping. I organized and compiled six volumes of training manual which consisted of materials on the state-of-the-art of multiple

cropping.

11. As Assistant Professor at **Central Philippine University**, I taught undergraduate and graduate level courses in agronomy, soil science, plant science, horticulture, plant physiology, crop physiology and ecology, weed science and statistics, including basic courses in general botany and genetics. I advised and supervised undergraduate and graduate students in their thesis research.

**ADMINISTRATIVE EXPERIENCE**:

1. **Head, Crop & Ecosystem Management Unit**, AVRDC-The World Vegetable Center, Taiwan, March 2004 to Sept 2009. Provides leadership role in the crop and soil management program of the unit. Administers budget and funds for core and special projects. Supervises three senior international research staff and 10 field assistant and technicians.

2. **Assistant Director**, Agricultural Experiment Station, University of the Virgin Islands, St. Croix, U.S. Virgin Islands, 1998-2001. Assisted in the management of the experiment station in various capacities including staff recruitment, supervision of farm manager, maintenance of greenhouses, sheds, equipment, etc. I organized and handled publicity for seminars, workshops, field days, open house, training, and conferences. Served as chairman of the review committee for AES publications and research proposals submitted for funding. Reviewed and edited manuscripts and proposals for internal review and followed procedures until final stage is reached for final approval by AES Director. Organized staff training and development on special needs and assisted in the development and preparation of AES five-year plan of work.

3. **Program Leader**, Vegetable Crops, Agricultural Experiment Station, University of the Virgin Islands, St. Croix, U.S. Virgin Islands, 1991-present. I provided leadership role to the Vegetable Crops Program and supervised six research and support staff. I coordinated a regional project on microirrigation of vegetable crops and supervised three research projects under special grant. I was responsible for overseeing field, greenhouse and laboratory activities. Additional duties included designing and implementing research projects under special grants and writing project proposals for external funding.

4. **Team Leader**, Rice-Based Systems Working Group, IITA, Ibadan, Nigeria, 1987-1989. Together with team members, we developed a five-year research program aimed at improving rice-based cropping systems in inland valley swamps in West and Central Africa. I coordinated the work of the group members in conducting on-farm research in three sites in Nigeria and Sierra Leone.

5. **Project Leader**, IITA/IDRC Farming Systems Research Project, IITA, Ibadan, Nigeria, 1984-1987. As agronomist and leader of this project, I supervised three research assistants and five field technicians. I was responsible for planning and implementing on-farm experiments with farmers' participation.

6. **Coordinator**, Horticulture Program, Rodale Research Center, Kutztown, Pennsylvania, 1982-1984. I coordinated and supervised research projects in horticulture with six research and technical staff. I provided technical backstopping to editors of Organic Gardening Magazine and the New Farm Magazine of Regenerative Agriculture.

7. **Site Coordinator**, IRRI Cropping Systems Program, Iloilo, Philippines, 1975-1976. I established and coordinated an outreach site in Iloilo province for IRRI cropping systems research program. I supervised 15 research and support staff composed of research assistants, research aides, field technicians, village assistants and office secretarial staff. The project conducted on-farm trials in seven villages with more than 50 farmer cooperators. The site became a model for other Southeast Asian countries and led to the organization of Asian Cropping Systems Network.

8. **Coordinator**, Plant Science Research, College of Agriculture, Central Philippine University, Iloilo City, Philippines, 1970-1972. I coordinated research projects in plant science including collaborative projects with other universities and research institutes in the Philippines. I supervised the work of two research assistants, farm manager and field technicians.

**EXPERIENCE IN NATIONAL AGRICULTURAL RESEARCH AND EXTENSION SYSTEMS (NARES) – (1995-2009)**

1. **Lead Scientist/Project Leader,** AVRDC – The World Vegetable Center for SANREM/CRSP Agroforestry and Sustainable Vegetable Production System for Southeast Asian Watershed Project, January 2005-December 2009. I provided leadership role in developing technologies for vegetable agroforestry systems including integrating improved vegetable varieties and germplasm into tree-based systems, drip irrigation and minimum tillage for collaborating countries: Philippines, Indonesia and Vietnam.

2. **Lead Scientist/Project Leader**, AVRDC – The World Vegetable Center for ACIAR Project – Integrated Crop Management Package for Smallholder Gardens in Solomon Islands, May 2007 to March 2009. I provided leadership and management role in developing integrated crop management package and technology transfer for smallholder vegetable gardens in Solomon Islands.

3. **Project Leader**, AVRDC – The World Vegetable Center for CG Challenge Program for Water and Food CPWF-CIDA Project on Market Strategies for Water Productivity in Cambodia, January 2006 to March 2008. I provided technical support and training to country collaborators in introducing and transferring low-cost drip irrigation systems for small-scale farmers in Cambodia to increase vegetable production and water productivity.

4. **Coordinator** for crop management technology component of ACIAR-AVRDC Project on Integrated Disease Management (IDM) for anthracnose, Phytophthora blight, and whitefly-transmitted Geminiviruses in chilli pepper in Indonesia, July 2006 to December 2009. Coordinated on-farm and on-station trials on integrated crop cultural practices for managing

target diseases of chili pepper in Indonesia.

5. **Technical Team Member**, ACIAR-AVRDC Project on Integrated Soil and Crop Management for Rehabilitation of Vegetable Production in the Tsunami-affected Areas of NAD Province, Indonesia, July 2007-Sept 2009. I provided technical support and training in integrated crop management for country collaborators.

6. **Technical Team Member**, ADB-AVRDC Project on Improving Rural Livelihoods through Development of Vegetable-Based Post-harvest Technologies in Cambodia, Lao PDR and Vietnam, January 2005 to December 2009. I provided technical support and training for collaborators on drip irrigation and good agricultural practices for improving post-harvest qualities of vegetables.

7. **Coordinator** of Component 3 – Technical and Institutional Innovations, Sustainable Development of Peri-urban Agriculture (SUSPER) Project for Cambodia, Laos and Vietnam. AVRDC/CIRAD/French Ministry of Foreign Affairs, 2004-2006. I provided technical support and expertise in developing sustainable crop management practices for producing "safe" vegetables and year-round vegetables supply in peri-urban agriculture of mega-cities. Assist the national programs in implementing on-farm trials and technology transfer and training.

8. **Coordinator** of crop management component for GTZ-funded project on developing multiple disease resistant chili pepper cultivars for China, India, Indonesia and Thailand, 2004 to 2008. I supported the national programs in developing improved crop management practices for chili pepper production using improved lines and disease-resistant cultivars. Assisted national programs in conducting training courses on improved chili pepper production.

9. **Agronomist**, AVRDC/RI/IDE joint project on Introduction, Evaluation and Promotion of Appropriate Crop Legumes and Vegetables for Eastern Afghanistan (CLVEA), 2004-2006. I provided technical support to the project in terms of designing and conducting on-station and on-farms trials on variety evaluation, crop management, drip irrigation and training. This project is in collaboration with Relief International (RI) and International Development Enterprises (IDE).

10. **Trainor and Resource Person**, Ghana Agricultural Extension Capacity Building Project. Conducted Train-the-Trainer Workshop in Production, Post-harvest Handling and Value Addition of Chili Pepper and Okra, USDA/Ghana Ministry of Food and Agriculture (MOFA), Accra, Ghana. June 4-6, 2003.

11. **Trainor and Resource Person**, AVRDC/ARC/IAS In-Country Training and Exchanging Experiences on Off-Season Vegetable Production in South Vietnam, Ho Chi Minh City, October 22-27, 2001. Trained research and extension personnel of the Institute of Agriculture Science of South Vietnam (IAS) on off-season vegetable production, hydroponics and protected cultivation of vegetables.

12. **Agronomist**, DAI/DA/ADB Philippine Grains Sector Development Project, July 1997 to February 1998 (please refer to previous page on consulting experience for detailed activities).

7. **Agronomist**, Appropriate Technology International (ATI), ACDI/VOCA/USAID, Kampala, Uganda, May-June 1997 (please refer to previous page on consulting experience for detailed activities).

**COMPUTER SKILLS**:

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|---|---|---|
| 1. | Word Processing: | WordPerfect, Microsoft Word, Pagemaker, MS Publisher |
| 2. | Graphics: | Harvard Graphics, PowerPoint, SigmaPlot, SlideWrite |
| 3. | Spread Sheet: | Microsoft Excel |
| 4. | Statistics: | SAS, SigmaStat, MSTATC, IRRIStat, CropStat |

**HONORS AND AWARDS**:

***Outstanding Service Award***, Central Philippine University, 2005.
***Outstanding International Horticulturist Award,*** American Society for Horticultural Science (ASHS), 2005.
***Distinguished Centralian Award***, Central Philippine University, 2001.
***Distinguished Alumni Award***, College of Agriculture Alumni Association, Central Philippine University, 1990.
The ***Rockefeller Foundation Graduate Fellowship***, 1976-1980.
The ***International Rice Research Institute Scholarship***, 1968-1970.

**RESEARCH GRANTS**:

Integrated Crop Management Package for Sustainable Smallholder Gardens in Solomon Islands, Project Leader, $560,000, 2007-2011.

Agroforestry and Sustainable Vegetable Production in Southeast Asian Watersheds, SANREM-CRSP, USAID $100,000, co-investigator, 2006-2009.

Market Strategies for Water Productivity in Cambodia, CGIAR Challenge Program for Water and Food, $75,000, co-investigator, 2006-2008.

Evaluation of chili germplasm as rootstocks for grafted sweet pepper production during the hot-wet and hot-dry seasons in lowland tropics, Core- $3, 125, co-author, AVRDC 2004-2008.

Development of integrated crop management associated with grafting technology for reducing incidence of Phytophptora blight and bacterial wilt diseases to improve sweet pepper yields in summer in Taiwan. CoA – $21,875 Co-author, AVRDC 2006-2009.

Year-round vegetable production under rain shelters with drip and furrow irrigation, Core-$9,375, author, AVRDC 2004-2005

Technology protocol development for soil injection of booster nutrient solution, CoA - $13,438 Co-author, AVRDC 2004-2005

Development of a composting expert system, CoA - $31,250, co-author, AVRDC 2004-2005

Comparison of lycopene and other phytochemicals in tomatoes grown under conventional vs. organic management systems, TOC-$30,000, co-author, AVRDC 2004-2005

Development of organic vegetable research program, TOC-$10,000, co-author, AVRDC 2005

Evaluating specialty ornamentals using a sustainable agroforestry approach (USDA/T-STAR) - $20,000 (Co-Principal Investigator). 2005-2007.

Tree-Crop Diversity and Enterprise Development through Agroforestry: A Participatory Survey and GIS-Based Analysis in the Virgin Islands (USDA/T-STAR/CBAG) - $110,731 (Co-Principal Investigator). 2002-2005.

Evaluation of Soil Solarization as a Pest Management Strategy for Production of Vegetables in the U.S. Virgin Islands (USDA/T-STAR/CBAG) - $92,003 (Co-Principal Investigator). 2002-2005.

A Model Integrated Small Farm for the U.S. Caribbean and Pacific Islands, USDA Initiative for Future Agriculture and Farming Systems (IFAFS) - $750,000 (Principal Investigator). 2000-2003.

Integrating Medicinal Trees into High Value Horticultural Crops in an Agroforestry System in the Virgin Islands, USDA Initiative for Future Agriculture and Farming System (IFAFS) - $229,000 (Principal Investigator). 2000-2004.

Improving Crop Management Practices for West Indian Hot Pepper Production, Caribbean Basin Advisory Group (CBAG)/U.S. Department of Agriculture (USDA) Tropical and Subtropical Agriculture Research (T-STAR) - $26,500 (Principal Investigator). 1999-2002.

Developing Sustainable Crop Management Systems for Production of Culinary Herbs in the Virgin Islands, USDA Southern Region Sustainable Agriculture Research and Extension (SARE)/Agriculture in Concert with Environment (ACE) - $143,529 (Principal Investigator). 1996-1999.

Germplasm Evaluation and Improving Crop Management Systems for Tropical Leaf Vegetables, CBAG/USDA/T-STAR - $90,000 (Principal Investigator). 1996-1999.
Alley Cropping Systems for Sustainable Vegetable Production in the U.S. Virgin Islands, CBAG/USDA/T-STAR - $139,023 (Principal Investigator). 1992-1995.

Integrating Tilapia Culture in Tanks with Field Production of Vegetable Crops, CBAG/USDA/T-STAR - $128,336 (Co-Principal Investigator). 1992-1995.

Evaluation of Horticultural Practices for Enhancing Root Crop Production in the U.S. Virgin Islands, Hatch - $71,500-annual (Co-Principal Investigator). 1999-2001.

Improving Crop Management Systems for the Production of Culinary Herbs in the U.S. Virgin Islands, Hatch - $82,100-annual (Principal Investigator). 1998-2001.

Evaluation of Saline Water for Irrigating Vegetable Crops in the U.S. Virgin Islands, U.S. Geological Survey - $16,081-annual (Principal Investigator). 1992-1994.

Horticultural and Economic Evaluation of Vegetable Varieties in the U.S. Virgin Islands, Hatch - $65,523-annual (Principal Investigator). 1998-2003

Microirrigation Technologies for Protection of Natural Resources and Optimum Production, Hatch-Regional Project - $60,000-annual (Principal Investigator). 2000-2005.

Microirrigation of Horticultural Crops in Humid Regions, Hatch-Regional Project - $63,042-annual (Principal Investigator). 1995-2000.

Economic Analysis of Integrated Recirculating Systems, CBAG/USDA/T-STAR - $117,513 (Co-Principal Investigator). 1993-1996.

Breeding and Genetic Engineering for Forage Yield, Quality and Persistence, CBAG/USDA/T-STAR (Co-Principal Investigator). 1996-1999.

Improved Field Production of Herbs and Spices in the Virgin Islands, CBAG/USDA/T-STAR - $143,000 (Principal Investigator). 1987-1992.

**OTHER ACTIVITIES**

**External Reviewer,** ACIAR Project Proposals, 2008.

**Publications Coordinator & Editor,** Agricultural Experiment Station, University of the Virgin Islands, 2001 to 2005.

**Member**, Editorial Board, Chiang Mai University Journal, Chiang Mai, Thailand, 2002 to 2007.

**Member**, Editorial Board, Caribbean Food Crops Society Proceedings, 2004.

**Chairman**, Organizing Committee, UVI Research and Public Service Annual Retreat, 2002.

**Chairman,** Technical Committee of S-247 Regional Project on Microirrigation of Horticultural

Crops in Humid Regions 1994. Planned, organized and chaired the 1994 Regional/Annual Meeting in Mayaguez, Puerto Rico. Conducted field tour and visits to farmers' fields in St.Croix. Summarized and prepared the S-247 Annual Report. Contributed to the writing of a five-year project proposal.

**Chair-elect** for the 1994-1995 Working Group on Tropical Horticultural Products Research and Development Opportunities (TRPH), International Affairs Division, American Society for Horticultural Science (ASHS).

**Co-Chair** for the 1994-1995 Workshop on Exotic Horticultural Crops with Market Potentials in the United States, American Society for Horticultural Science Annual Meeting, Oregon State University, Corvallis, Oregon.

**Chairman,** 1994 Working Group on Herbs, Spices and Medicinal Plants (HSMP-WG), Research Division, American Society for Horticultural Sciences (ASHS).

**Chair and Session Moderator**, 1994 Workshop on Production and Marketing of Herbs, Spices and Medicinal Plants in the Pacific Northwest and the Caribbean, American Society for Horticultural Science Annual Meeting, Oregon State University, Corvallis, Oregon.

**Chair and Session Moderator**, 2008, Organic Horticulture, American Society for Horticultural Sciences Annual Meeting, Orlando, Florida, July 22-24, 2008.

**Chairman and Technical Editor**, 1994 Publications and Proceedings Committee, Caribbean Food Crops Society 30th Annual Meeting, St. Thomas, U.S. Virgin Islands.

**Chairman and Technical Editor,** 1999 Publications and Proceedings Committee, 2nd International Conference on Herbal Medicines in the Caribbean, St. Croix, U.S. Virgin Islands.

**Technical Editor**, 2002 Proceedings of the Proc. 4th International Workshop on Herbal Medicines in the Caribbean, St. Lucia: Integrating Herbal Medicine into the Health Care System.

**Member,** Editorial Board for the 1997 Virgin Islands Agriculture and Food Fair Bulletin.

**Reviewer,** manuscripts for American Society for Horticultural Science (HortTech) journal articles for publication.

**Reviewer,** proposals submitted to USDA Small Business Initiative Research Program.

**Served as Member of the Technical Committee** for reviewing research proposals submitted to the USDA Southern Region Sustainable Agriculture Research and Education/Agriculture in Concert with Environment (SARE/ACE), 1993-1996.

**Served as Member of the Organizing Committee** for the planning and organization of the 1994 CBAG/PBAG International Workshop on Sustainability of Agroecosystems in the Caribbean and Pacific Island Nations, Orlando, Florida, Oct. 18-20, 1994.

**Served as Secretary** for the Annual Meeting of S-247 Regional Project on Microirrigation of Horticultural Crops, Tifton, Georgia, March 31 to April 1, 1992.

**Member, Task Force** for Southern Extension and Research Activity (SERA-TF-7) on Sustainable Agriculture. Participated in the conference call meeting, August 25, 1994 in the initial planning of collaborative projects in sustainable agriculture.

**Member**, **Steering Committee**, Vegetable Crops Management Working Group, Research Division, American Society for Horticultural Science (ASHS).

**Member,** Waste Utilization in Horticulture Working Group, Research Division, ASHS.

**Member**, Herbs, Spices and Medicinal Plants Working Group, Research Division, ASHS.

**Member**, Vegetable Crops Management Working Group, Research Division, ASHS.

**Member**, Organic Horticulture Working Group, Research Division, ASHS.

**Member**, Tropical Horticultural Crops Working Group, Research Division, ASHS.

**Represented the Director and Associate Director** in the Southern Director Workshop on Relevancy of Experiment Station Research Portfolios to Sustainable Agriculture, San Antonio, Texas. Prepared and submitted a report including evaluation of UVI/AES research projects as to their relevancy to sustainable agriculture.

**Served as Location Leader** for the newly built UVI Research and Extension Center facility.

**MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

American Society of Agronomy (ASA)
American Society for Horticultural Science (ASHS)
Association of Farming Systems Research and Extension (AFSRE)
Caribbean Food Crops Society (CFCS)
Caribbean Association for Researchers and Herbal Practitioners (CARAPA)
Crop Science Society of the Philippines (CSSP)
Florida State Horticultural Society (FSHS)
International Society for Horticultural Science (ISHS)
International Federation of Organic Agriculture Movements (IFOAM)
National Geographic Society (NGS)

Nitrogen Fixing Tree Association (NFTA)
West African Farming Systems Research Network (WAFSRN)

**COMMUNITY SERVICE:**

Served as technical consultant to local vegetable growers in terms of improved production technology.

Assisted the extension service in establishing and setting up educational displays in annual Virgin Islands Agriculture and Food Fair activities.

Presented lectures and slide shows in farmers' workshop on vegetable production and drip irrigation.

Presented lectures to gardening workshops conducted by 4-H Club Program.

Radio talk shows on vegetable and herb production.

Deacon and Sunday school Teacher, Island Baptist Church, Frederiksted, St.Croix, Virgin Islands.

**PUBLICATIONS**:

**A. Consultancy Reports**

1. Palada, M.C., J.E. Hernandez and M.Logronio. 1997. Philippine Grains Sector Development Project Technology Report. Development Alternatives, Inc., (DAI) Department of Agriculture (DA) and Asian Development Bank (ADB), Manila, PHILIPPINES.

2. Palada, M.C. 1997. An Evaluation on the Progress and Impact of Farmer-Participatory Research Project for Oilseed Production, Processing and Utilization in Northern Uganda. Appropriate Technology Uganda (ATU), ACDI/VOCA/USAID, Kampala, Uganda, EAST AFRICA. May 25-June 25, 1997. 13 p.

3. Palada, M.C. 1990. Review of Procedures for Research/Project Formulation, Prioritization and Budgetary Procedures for KARI's Regional and National Research Centers (RRCs/NRCs). A report prepared for Kenya Agricultural Research Institute (KARI) and World Bank Regional Mission for Eastern Africa, Nairobi, Kenya, EAST AFRICA. Sept. 26, 1990. 22 p.

4. Palada, M.C. 1990. Organic Waste Composting Operation of Selected Agro-Industries in Kenya. A consultancy report submitted to the World Bank Regional Mission for

Eastern Africa, Nairobi, Kenya, EAST AFRICA. Sept 2, 1990. 9 p.

5. Palada, M.C. 1990. Review of the Proposal on Organic Fertilization Pilot Project by the Ministry of Agriculture, Somalia. A report prepared for World Bank Regional Mission for Eastern Africa, Nairobi, Kenya, EAST AFRICA. Sept. 15, 1990. 7 p.

6. Palada, M.C. 1990. Organic Fertilization Program for Somalia. A report prepared for the Directorate of Research, Ministry of Agriculture, Mogadishu, Somalia, EAST AFRICA. Dec. 18, 1990. 29 p.

**B. Refereed Journals**

1. Palada, M.C., S. Bhattarai, M. Roberts, N. Baxter, M. Bhattarai, R. Kimsan, S. Kan and W.L. Wu. 2009. Increasing on-farm water productivity through farmer-participatory evaluation of affordable microirrigation vegetable-based technology in Cambodia. Irrigation Science (manuscript submitted).

2. Mercado, A.R., G. Arcinal, C. Duque, M. Palada and M. Reyes. 2009. Bright prospects for vegetable production in agroforestry systems. Agroforestry Systems (manuscript submitted).

3. Bhattarai, S.P., M.C. Palada, M. Roberts, R. Kimsan, S. Kan, W. Bowen, D.J. Midmore, D.L. Wu and R. Salas. 2009. On-farm evaluation of simple and affordable drip irrigation system for smallholder vegetable production in Cambodia. International Journal of Agricultural Water Management (in press).

4. Juroszek, P, T.A. Lumpkin and M.C. Palada. 2008. Sustainable vegetable production systems. *Acta Horticulturae* 767:133-149.

5. Juroszek, P., D. Ledesma, C.H. Ma, R.Y. Yang, J.C. Lin, H.H. Tsai, D.L. Wu, P.M. Hanson and M.C. Palada. 2008. Plant vigor and yields of organically and conventionally grown tomato crops in Taiwan. *Acta Horticulturae* 767:257-265.

6. Palada, M.C. and W.L. Wu. 2008. Evaluation of chili rootstocks for grafted sweet pepper production during the hot-wet and hot-dry seasons in Taiwan. *Acta Horticulturae* 767:151-154.

7. Wu, D.L., C.H. Lin, Z.M. Sheu and M.C. Palada. 2008. Selection of Phytophpthora blight and bacterial wilt tolerance in sweet pepper lines as rootstocks. *Taiwan Soc. Hort. Sci. 54(1):47-58.*

8. Susila, Anas, Chin-hua Ma and Manuel C. Palada. 2008. Improving management practices for chili pepper (*Capsicum annuum* L) with starter solution application. (Submitted to *Acta Horticulturae*).

9. Palada, M.C. and D.L. Wu. 2007. Increasing off-season tomato production using

grafting technology for peri-urban agriculture in Southeast Asia. *Acta Horticulturae* 742:125-131.

10. Palada, M.C. and M. Ali. 2007. Sustainable development of peri-urban agriculture in Southeast Asia: Evaluation of technologies for improving year-round production of safe vegetables. *Acta Horticulturae* 762:271-281.

11. Palada, M.C., L.C. Chang, R.Y. Yang and L.M. Engle. 2007. Introduction and varietal screening of drumstick tree (*Moringa spp*.) for horticultural traits and adaptation in Taiwan. *Acta Horticulturae* 752:249-253.

12. Shieh, Sheue-Chin, Christine Pollard and Manuel C. Palada. 2008. Developing a horticulture therapy garden for vocational training in Taiwan. *Acta Horticulturae 775:23-30.*

13. Palada, M.C., T. J. Kalb, and T.A. Lumpkin. 2006. The role of AVRDC-The World Vegetable Center in enhancing and promoting vegetable production in the tropics. *HortScience* 41(3):556-560.

14. Palada, M.C., J.M. Mitchell, B.N. Becker and P.K.R. Nair. 2005. The integration of medicinal plants and culinary herbs in agroforestry systems for the Caribbean: A study in the U.S. Virgin Islands. *Acta Horticulturae* 676:147-153.

15. Palada, M.C., A. Davis, S.M.A. Crossman, C. Robles and E. Chichester. 2004. Sustainable crop management practices for improving production of culinary herbs in the Virgin Islands. *Acta Horticulturae* 629:289-298.

16. Rao, M.R., M.C. Palada and B.N. Becker. 2004. Medicinal and aromatic plants in agroforestry systems. *Agroforestry Systems* 61:107-122.

17 Palada, M.C., S.M.A. Crossman, A.M. Davis and J.A.Kowalski. 2003. Yield and irrigation water use of vegetables grown with plastic and straw mulch in the Virgin Islands. *International Water & Irrigation* 23:21-25.

18. Palada, M.C., S.M.A. Crossman and C.D. Collingwood. 2001. Raising vegetable production with microirrigation. *International Water & Irrigation* 21 (2):41-44.

19. Palada, M.C., S.M.A. Crossman, J.A. Kowalski and C.D. Collingwood. 1999. Evaluation of organic and synthetic mulches for basil production under drip irrigation. *J. Herbs, Spices and Medicinal Plants*. Vol. 6(4):39-48.

20. Palada, M.C., W.M. Cole, and S.M.A. Crossman. 1999. Influence of effluents from intensive aquaculture and sludge on growth and yield of bell peppers. *J. of Sustainable Agriculture* 14(4):85-103.

21. Crossman, S.M.A., M.C. Palada, J.A. Kowalski and C.D. Collingwood. 1998. Evaluation of germplasm and improved crop management practices for sweetpotato production in the U.S. Virgin Islands. *Trop. Agric. (Trinidad)* 75(2):197-203.

22. Palada, M.C. 1996. Moringa (*Moringa oleifera Lam.*): a versatile tree crop with horticultural potential in the subtropical United States. *HortScience* 31:794-797.

23. Palada, M.C., B.T. Kang and S.L.Claassen. 1992. Effect of alley cropping with *Leucaena leucocephala* and fertilizer application on yield of vegetable crops. *Agroforestry Systems* 19:139-147.

24. Hulugalle, N.R. and M.C. Palada. 1990. Effect of seedbed preparation method and mulch on soil physical properties and yield of cowpea in a rice fallow of an inland valley swamp. *Soil and Tillage Research* 17:101-113.

25. Palada, M.C., S. Ganser and R.R. Harwood. 1987. Cultivar evaluation for early and extended production of Chinese cabbage in Eastern Pennsylvania. *HortScience* 22:1260-1262.

26. Bantilan, R.T., M.C. Palada and R.R. Harwood. 1974. Integrated weed management: I. Key factors affecting crop-weed balance. *Phil. Weed Science Bulletin* 1(2):14-36.

27. Palada, M.C. and B.S. Vergara. 1972. Environmental effects on the resistance of rice seedlings to complete submergence. *Crop Science Soc. Amer. Journal* 12:209-212.

**C. Book Chapters/Articles**

1. Palada, M.C. and Deng-Lin Wu. 2009. Grafting techniques for tomato and pepper under rice-based cropping system. In: Peter Ooi and Madonna Casimero (eds.) Enhancing Vegetable IPM Implementation within Rice-Based System. Philippine Rice Research Institute (in press).

2. Palada, M.C., D.L. Wu, G.C. Luther, E.C. Javier, S. Ramasamy, M. Bhattarai, A. Mercado, M. Reyes and C. Duque. 2009. Selection of vegetable crops under vegetable agroforestry system. In: Vegetable Agroforestry System in the Philippines. (Book Chapter) TMPEGS Philippines.

3. Susila, A.D., B.S. Purwoko, M.R. Reyes, and M.C. Palada. 2009. Agroforestry and Vegetable Production in Southeast Asian Watersheds. SANREM Research Report. Dept of Agron. and Hort. Faculty of Agric. Bogor Agric. Univ. Indonesia.

4. Manurung, G., A.D. Susila, J. Roshetko and M.C. Palada. 2009. Findings and Challenges: Can Vegetables be Productive under Tree Shade Management in West Java?

World Agroforestry Center, Bogor, Indonesia.

5. Susila, A.D., J.G. Kartika and M.C. Palada. 2009. Phosphorus Rate for Vegetable Grown in the *Ultisols* - Nanggung, Bogor, Indonesia, Faculty of Agric. Bogor Agric. Univ. Indonesia.

6. Susila, A.D., J.G. Kartika, T. Prasetyo and M.C. Palada. 2009. Fertilizer Recommendation: Correlation and Calibration Study of Soil P Test for Yard Long Bean (*Vigna unguilata* L) on *Ultisols* in Nanggung-Bogor. Faculty of Agric. Bogor Agric. Univ. Indonesia.

7. Susila, A.D., T. Prasetyo and M.C. Palada. 2009. Optimum Fertilizer Rate for Yard Long Bean (Vigna Unguilata L) Production in *Ultisols* Nanggung. Faculty of Agric. Bogor Agric. Univ. Indonesia.

8. Susila, A.D., T. Prasetyo and M.C. Palada. 2009. Optimum Fertilizer Rate for Kangkong (*Ipomoea reptans* L.) Production in *Ultisols* Nanggung. Faculty of Agric. Bogor Agric. Univ. Indonesia.

9. Susila, A.D., T. Prasetyo and M.C. Palada. 2009. Drip Irrigation: Will it Increase Yield in Traditional Vegetable Production System? Faculty of Agric. Bogor Agric. Univ.

10. Bambang, P., A. Laksana, M. Syukur, A. Susila, M. Palada, and M. Reyes. 2009. Collection and Characterization of Indigenous Vegetables Obtained from Bogor and Pandeglang Districts, Indonesia. Faculty of Agric. Bogor Agric. Univ. Indonesia.

11. Bambang, P.S., D. Hermanto, M. Syukur, A.D. Susila, M.C. Palada and M. Reyes. 2009. Collection and Characterization of Indonesian Indigenous Vegetables: Beluntas, Ke nikir, Pegagan, Sambung Nyawa, and Terubuk. Faculty of Agric. Bogor Agri. Univ.,Indonesia.

12. Bambang, P.S., M.A. Lestari, A.D. Susila, M. Reyes and M.C. Palada. 2009. Effect of Fertilization on Growth and Yield of Some Indigenous Vegetables. Faculty of Agric. Bogor Agric. Univ. Indonesia.

13. Bambang, P.S., N. Kurniatusolihat, A.D. Susila, M. Reyes and M.C. Palada. 2009. Effect of Cutting Materials and Fertilizers on Yield of Terubuk (*Saccharum edule* Hasskarl). Faculty of Agric. Bogor Agric. Univ. Indonesia.

14. Pambayun, R., P.S. Bambang, A.D. Susila, M. Reyes and M.C. Palada. 2009. Effect of Different Spacing on Yield of Several Indigenous Vegetables. Faculty of Agric. Bogor Agric. Univ. Indonesia.

15. Rauf, A., D. Salanti, M. Afiat, A.D. Susila, M. Reyes and M.C. Palada. 2009. Effects of a Cover Crop on Aphid and Podborer Infestations, Predaceous Arthropods, and Yield of Yard-long Bean. Faculty of Agric. Bogor Agric. Univ. Indonesia

16. Susila, A.D., T. Prasetyo and M.C. Palada. 2009. Improving Management Practices for Transplant Production of Chili Pepper (*Capsicum annuum* L.) Faculty of Agric. Bogor Agric. Univ. Indonesia.

17. Susila, A.D., T. Prasetyo and M.C. Palada. 2009. Growing Vegetable under Tree System in Nanggung, Bogor Indonesia. Faculty of Agric. Bogor Agric. Univ. Indonesia

18. Rao, M.R., M.C. Palada and B.N. Becker. 2004. Medicinal and Aromatic Plants in Agroforestry Systems. pp. 107-122 In: P.K.R. Nair, M.R. Rao and L.E. Buck (eds.). New Vistas in Agroforestry, A Compendium for the 1st World Congress of Agroforestry 2004. Kluwer Academic Publishers, Dordrecht, The Netherlands.

19. Rao, M.R., M.C. Palada and B.N. Becker. 2004. Medicinal and aromatic plants in agroforestry systems. p. 282-290 In: C. Elevitch (ed.), The Overstory Book: Cultivating Connections with Trees. 2nd edition. Permanent Agriculture Resources, Holualoa, Hawaii.

**D. Conference, Symposia and Workshop Proceedings (edited)**

1. Palada, M.C. and Bhattarai, M. 2009. Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

2. Bhattarai, M. and Palada, M.C. 2009. Water Implications of Vegetable Cultivaton: Is Affordable Microirrigation a Solution for Addressing Water Scarcity? In: Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. Palada, M.C. and Bhattarai (eds.). AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

3. Palada, M.C. and Bhattarai, M. 2009. Key Findings of Affordable Microirrigation-Based Vegetable (AMIV) Projects in Asia by AVRDC. In: Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. Palada, M.C. and Bhattarai (eds.). AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

4. Palada, M.C. and Bhattarai, M. 2009. Overview of AMIV Research and Development Activities in Three Countries. In: Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. Palada, M.C. and Bhattarai (eds.). AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

5. Palada, M.C. 2009. Principles and Application of Drip Irrigation and AMIV Technology. In: Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. Palada, M.C. and Bhattarai (eds.).

AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

6. Palada, M.C. and Bhattarai, M. 2009. On-Farm Research Methods for Conducting Microirrigation Trials. In: Proceedings of the Project Planning Workshop Affordable Microirrigation for Vegetable (AMIV) Production in Western Africa. Palada, M.C. and Bhattarai (eds.). AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan.

7. Ma, C.H., Chen, J.H., Yang, R.Y., Palada, M.C., Ou, S.C., Lin, Y.H. and Chen, L.H.. 2009. Monitoring Soil and Vegetable Quality under Six Fertilization Strategies in Organic and Conventional Farming Systems. In: The proceeding of The 9th ESAFS (East and Southeast Asian Federation of Soil Science) international conference: "Soils as a Convergent Technology in Tandem with Human and Ecosystem Health". pp 373-374. Oct. 27-30, Seoul, Korea. (Abstract and poster)

8. Palada, M.C., S. Bhattarai, M. Roberts, N. Baxter, M. Bhattarai, R. Kimsan, S. Kan and D. Wu. 2008. Increasing on-farm water productivity through affordable microirrigation vegetable-based technology in Cambodia. Paper presented during the Second Challenge Program on Water and Food (CPWF) International Forum on Water and Food. 11-13 November 2008, Addis Ababa, Ethiopia.

9. Ma C. H., F.C. Su, M.Y. Lin, C.H. Chen, T.C. Wang, H.H. Tsai, P. Juroszek, R.Y. Yang, L.H. Chen and M.C. Palada. 2008. Integrated Production Technologies for Organic Vegetable Soybean. Invited presentation in "Symposium of production technologies for organic crops"held by Chinese Sustainable Agriculture Association, June 26, Taichung. Paper published in the Proceedings, 20 pages, in Chinese with English abstract).

10. Ma C.H., R.Y. Yang, J.H.Chen and M.C. Palada. 2008. Effects of Different Fertilization Strategies on Crop Quality in both organic and conventional farming systems. In: Newsletter of Soil and Fertilizer, Vol. 91. pp. 119-120. Published by The Chinese Society of Soil and Fertilizer Sciences, 12 December 2008, National Chung-Hsing University, Taichung, Taiwan,. (Abstract and poster, gained the 1st award among 43 posters)

11. Chen J.H., C.H. Ma, M.C. Palada and C.S.Wang. 2008. Effects of Six Fertilization Strategies on Soil Chemical Properties in organic farming system. In: Newsletter of Soil and Fertilizer, Vol. 91. pp. 117-118. Published by The Chinese Society of Soil and Fertilizer Sciences, 12 December 2008, National Chung-Hsing University, Taichung, Taiwan, (Abstract and poster, gained the 2nd award among 43 posters)

12. Wu, D.L. and M.C. Palada. 2008. On-farm evaluation of pepper grafting technology for managing-soil-borne diseases. 38th Annual Scientific Meeting, Crop Science Society of the Philippines, Iloilo City, 12-16 May 2008. Abstract p. 42-43.

13. Azis, A., A. Silmi, B.A. Bakar, B. Han, C. Dorahy, F. Ferayanti, G.C. Luther, J.S. Avolita, M. Ferizal, M.C. Palada, N.N. Rayyan, P.A.C. Ooi, R. Jaya, R. Sutarya, S. Daud, Subhan, Tamrin, Yatiman, Yufniati ZA, and Y. Yusuf (2007). Participatory Assessment:

Integrated Soil and Crop Management for Rehabilitation of Vegetable Production in the Tsunami-affected Areas of NAD Province, Indonesia (ACIAR project report, to be submitted as an AVRDC Technical Bulletin).

14. Ma C.H., K.H. Houng, M. C. Palada and Y. H. Lin. 2007. Using simplified kinetic model of Fertilizer-P availability index to monitor soil available P in vegetable field. *In*: The 8th ESAFS (East and Southeast Asian Federation of Soil Science) international conference: "New Challenges for Agricultural Science- Harmonizing Food Production with the Environment". Oct. 22-23, Tsukuba, Japan. pp. 282.

15. Juroszek, P., C.H. Ma, H.H. Tsai, D.L. Wu and M.C. Palada. 2007. Organic Farming Research at AVRDC – The World Vegetable Center: Developing Systems for Smallholder Farmers in the Tropics. Tropentag 2007, Witzenhausen, Germany, 9-11 October, pp. 9, abstract and full paper online <http://www.tropentag.de/2007/abstracts/full/360.pdf>

16. Palada, M.C., C.H. Ma, P. Juroszek, and G.C. Luther. 2007. Research and Development Activities in the Crop and Ecosystem Management Unit at AVRDC – The World Vegetable Center: Relevance to RCSA. Pp. 100-125 In: Proc. Int'l Workshop on Advances in Research and Development for Vegetables in South Asia. Hyderabad, India.

17. Yang, R.Y., L.C. Chang, J.C. Hsu, B.B.Weng, M.C. Palada, M.L. Chadha and V. Levasseur. 2007. Nutritional and functional properties of Moringa leaves from germplasm to plant, to food, to health. In: Moringa leaves: Strategies, standards and markets for better impact on nutrition in Africa. Paris: MoringaNews. Moringa and Plant Resources Network. 9 pp.

18. Ma, C.H. and M.C. Palada. 2006. Fertility management of soil-rhizosphere system for efficient fertilizer use in vegetable production. Proc. Workshop on Sustained Management of Soil-Rhizosphere System for Efficient Crop Production and Fertilizer Use. FFTC p. 39-52.

19. Palada, M.C., J.F. Wang, R. Srinivasan and C.H. Ma. 2005. AVRDC-The World Vegetable Center's present and future approaches to good agricultural practices. Proceedings of International Seminar on Technologies for Good Agriculture Practice in Asia and Oceania. FFTC p. 167-189.

20. Palada, M.C. 2005. Global needs in vegetable production and technological developments at AVRDC-The World Vegetable Center. Proc. Annual Meeting of Indonesian Horticultural Society, Brawijaya University, Malang, East Java, Indonesia, 28-29 November 2005.

21. Palada, M.C., H. Lumpkin, C.H. Ma, P. Juroszek and D.L. Wu. 2005. Developing improved crop management systems for organic vegetable production in the tropics: The AVRDC-World Vegetable Center Approach. Proceedings of 15th IFOAM Organic World Congress: Shaping Sustainable Systems, Adelaide, Australia, 21-23 September

2005.

22. Ma, C.H., M.C. Palada and L.H. Chen. 2005. Development of starter solution technology for organic chili pepper production in the tropics. Proceedings 15th IFOAM Organic World Congress: Shaping Sustainable Systems, Adelaide, Australia, 21-23 September 2005.

23. Ma, C.H., M.C. Palada, L.H. Chen and H.Y. Tien. 2005. Development of farm-based expert system for composting and organic vegetable production with application to developing countries. Proceedings 15th IFOAM Organic World Congress: Shaping Sustainable Systems, Adelaide, Australia, 21-23 September 2005. p. 70-73.

24. Palada, M.C. and L.C. Chang. 2005. Evaluation of kangkong (*Ipomoea aquatica*) cultivars for year-round peri-urban vegetable production in Southeast Asia. Proceedings First International Symposium on Water Convolvulus, Bangkok, Thailand.

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