

**SEAVEG 2014: Families, Farms, Food**  
**Regional Symposium on Sustaining Small-Scale Vegetable Production and Marketing Systems for Food and Nutrition Security**

**25-27 February 2014**  
**Bangkok, Thailand**

**Program**

**25 February 2014 (Tuesday)**

**Opening Session (Plenary)**

**Venue: Grand Ballroom B**

07:30-08:30 Registration

08:30-08:40 **Introduction to Symposium and Logistics**

Sheila de Lima

*AVRDC – The World Vegetable Center*

08:40-08:50 **Inaugural Remarks**

Prem Nath

*Former Assistant Director-General, Food & Agriculture Organization (FAO)  
Chairperson, Vegetable Science International Network (VEGINET),  
Karnataka State, India*

08:50-09:00 **Welcome Remarks**

Ananta Dalodom

*President, Horticultural Science Society of Thailand*

09:00-09:10 **Welcome Address**

Poonpipope Kasemsap

*Vice President, International Relations  
Kasetsart University, Bangkok, Thailand*

09:10-09:20 **Symposium Report**

Dumrong Jirasutas

*Director General, Department of Agriculture, Bangkok, Thailand*

09:20-09:40 **Inaugural Address**

Hiroyuki Konuma

*Assistant Director-General and Regional Representative  
FAO Regional Office for Asia and the Pacific, Bangkok, Thailand*

09:40-10:00 **Inaugural Speech**

Chavalit Chookajorn

*Permanent Secretary, Ministry of Agriculture and Cooperatives, Thailand*

10:00-10:10 **VEGINET International Award**

*for the Outstanding International Vegetable Scientist of the Year*

10:10-10:20 Group Photo

10:20-10:30 Opening of Poster Session

10:30-10:50 *Coffee / Tea Break*

- 10:50-11:10     **Keynote Speech**  
***Southeast Asian vegetable production – A vision for the next 40 years to bring prosperity to the poor and health for all***  
Jacqueline d'Arros Hughes  
*Deputy Director General - Research*  
*AVRDC – The World Vegetable Center, Shanhua, Taiwan*
- 11:10-11:30     **Keynote Speech**  
***The role of private seed companies in the development of small scale farming systems***  
Joost Pekelharing  
*President of East West Seed Group*  
*East West Seed International limited, Bangkok, Thailand*
- 11:30-11:50     **Keynote Speech**  
***Vegetable production in Asia: Innovation, involvement, income and impact***  
Subash Dasgupta  
*Senior Plant Protection Officer*  
*FAO Regional Office for Asia and the Pacific, Bangkok, Thailand*
- 11:50-12:00     *Open Forum*
- 12:00-13:30     *Lunch Break*

**Masters of Ceremony:**

**Sheila Aclo de Lima**

*Administrative and Training Officer, AVRDC – The World Vegetable Center, Bangkok, Thailand*

**Orathai Wongmetha**

*Department of Agriculture, Bangkok, Thailand*

## Session 1: Small-Scale Farming Systems

**Venue:** *Grand Ballroom B*

**Chair:** Christian Genova II  
*Consultant, Agricultural Economics, Philippines*

- 13:30-13:50 **Session Opening Speech**  
**The CGIAR research program on integrated systems for the humid tropics in Southeast Asia**  
Victor Afari-Sefa  
*Global Theme Leader – Consumption and Head of Socioeconomics Research and Monitoring and Evaluation Group*  
*AVRDC - The World Vegetable Center Eastern and Southern Africa, Arusha, Tanzania*
- 13:50-14:05 **Healthier families, wealthier farmers: Vegetable growing benefit to indigenous peoples in Northeastern Cambodia**  
Annick Schubert  
*Project Manager Annâdya, Ratanakiri, Cambodia*
- 14:05-14:20 **Evaluation of xiao bai cai (*Brassica chinensis*) varieties for cultivation in Singapore**  
S.L. Fong  
*Horticulture Technology Department, Agri-Food & Veterinary Authority of Singapore*
- 14:20-14:35 Questions & Answers
- 14:35-14:50 **Effect of drip irrigation and mulching on yield, water use efficiency and economics of tomato**  
S.K. Biswas  
*Irrigation and Water Management Division, Bangladesh Agricultural Research Institute, Bangladesh*
- 14:50-15:05 **Quality vegetable production through fertigation system**  
Md. Abdur Razzaque Akanda  
*Irrigation and Water Management Division, Bangladesh Agricultural Research Institute, Gazipur, Bangladesh*
- 15:05-15:20 **Growth and yield of corn as affected by different row inter cropping patterns with indeterminate tomato in Southeastern Ifugao, Philippines**  
Lydia C. Medina  
*College of Agriculture and Forestry, Ifugao State University, Ifugao, Philippines*
- 15:20-15:30 Questions & Answers
- 15:30-16:00 Coffee/Tea Break
- 16:00-16:15 **Integrated homestead farming and nutrition: Bangladesh experience**  
Lalita Bhattacharjee  
*Food and Agriculture Organization, Dhaka, Bangladesh*
- 16:15-16:30 **Optimizing home yard spaces for integrated vegetable production: A case study of Bali, Indonesia**  
Ida Bagus Surawan  
*Assessment Institute for Agricultural Technology of Bali, Bali, Indonesia*

- 16:30-16:45 **Trained Master Gardeners Promoting Vegetable Production in Urban Households and Schools**  
Lala A. Kumar  
*University of Missouri Extension, USA*
- 16:45-17:00 Questions & Answers
- 17:00-17:15 **Growth and yield of pechay (*Brassica chinensis*) applied with different rates of vermicast**  
Susana A. Edwin  
*Abra State Institute of Sciences and Technology Main Campus, Lagangilang, Abra, Philippines*
- 17:15-17:30 **Indigenous vegetables, fishes and shells integrated in the native rice farming systems in the province of Ifugao**  
Teresita D. Allig  
*Ifugao State University, Ifugao , Philippines*
- 17:30-17:45 Questions & Answers
- 19:00-21:00 **Welcome Dinner**

## **Session 2: From Seed to Harvest**

### **Parallel session 2a: Germplasm and breeding**

**Venue:** *Ladprao 1*

**Chair:** Robert de la Peña  
*Head, R&D Operations and Product Development  
East-West Seed International Ltd.*

- 13:00-13:20 **Session Opening Speech**  
**Identifying objectives for breeding improved vegetable varieties: hard but vital choice**  
Prem Nath  
*Former Assistant Director-General, FAO  
Chairman, Prem Nath Agricultural Science Foundation (PNASF), Bangalore, India*
- 13:20-13:35 **Genotype x environment interaction and stability analysis of yield and components traits in French bean (*Phaseolus vulgaris* L.)**  
Akhilesh Sharma  
*Department of Vegetable Science and Floriculture, CSK Himachal Pradesh Agricultural University, Palampur, India*
- 13:35-13:50 **Screening for high beta carotene and lycopene in tomato**  
Ratchanee Siriyan  
*Sisaket Horticultural Research Center, Sisaket, Thailand*
- 13:50-14:05 Questions & Answers
- 14:05-14:20 **The selection of onion varieties in off-season production**  
Orathai Wongmetha  
*Chiang Mai Royal Agricultural Research Center, Department of Agriculture, Chiang Mai, Thailand*
- 14:20-14:35 **Varietal evaluation, on-farm trials and seed production of organic vegetables in Central Luzon, Philippines**  
Arturo O. Manipon  
*Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines*
- 14:35-14:50 **Performance studies of different oriental pickling melon (*Cucumis melo* var. *Conomon*) genotypes under northern dry zone of Karnataka**  
Vasant M. Ganiger  
*College of Horticulture, Department of Vegetable Science, University of Horticultural Sciences, Bagalkot, India*
- 14:50-15:00 Questions & Answers
- 15:00-15:30 Coffee/Tea Break
- 15:30-15:45 **Preliminary evaluation of resistance to powdery mildew (*Podosphaera xanthii*) in AVRDC collections of bitter melon (*Momordica charantia* L.)**  
Narinder P.S. Dhillon  
*AVRDC - The World Vegetable Center, Thailand*

- 15:45-16:00 **Induction of powdery mildew resistance in garden pea (*Pisum sativum*) using mutagenesis**  
Akhilesh Sharma  
*Department of Vegetable Science and Floriculture, CSK Himachal Pradesh Agricultural University, Palampur, India*
- 16:00-16:15 **Seeds and insecurity, reducing Malaysia's dependence on seed importation**  
Aaron Thomas Myatt  
*Crops for the Future Research Centre(CFFRC), Selangor, Malaysia*
- 16:15-16:30 Questions & Answers
- 16:30 -16:45 **Development of squash varieties (*Curcubita moschata* Duchesne) for organic production system**  
Rodel G. Maghirang  
*Crop Science Cluster - Institute of Plant Breeding, College of Agriculture, University of the Philippines Los Baños, Laguna, Philippines*
- 16:45 -17:00 **Collection, evaluation and conservation of amaranthus germplasm**  
M. Padma  
*Vegetable Research Station, Dr. Y.S.R Horticultural University, Hyderabad, India*
- 17.00-17.15 **Genetic diversity studies in paprika germplasm (*Capsicum annuum* L.)**  
Boga Neeraja Prabhakar  
*Acharya N. G. Ranga Agricultural University, India*
- 17:15-17:30 Questions & Answers
- 19:00-21:00 **Welcome Dinner**

## **Session 2: From Seed to Harvest**

### **Parallel session 2b: Sustainable production**

**Venue:** *Ladprao 2*

**Chair:** Mohamad Roff Mohd. Noor  
*Pest and Diseases Management Division  
Malaysian Agricultural Research and Development Institute (MARDI)  
Serdang Selangor, Malaysia*

- 13:00-13:20 **Session Opening Speech**  
**Food and nutrition security related to vegetable production in Laos and future perspectives of Lao PDR, the Particular case in Vientiane Municipality**  
Linkham Douangsavanh  
*Deputy Director General  
National Agriculture and Forestry Research Institute (NAFRI),  
Ministry of Agriculture and Forestry, Vientiane, Lao PDR*
- 13:20-13:35 **Integrating biopesticides with chemical pesticides to manage legume pod borer (*Maruca vitrata*) on yard-long bean in Lao PDR and Vietnam**  
Srinivasan Ramasamy  
*AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan*
- 13:35-13:50 **Year round vegetables production and quick growing fruit trees in home stead**  
Khan ASM MR  
*On-Farm Research Division, Bari, Gazipur, Bangladesh*
- 13:50-14:05 Questions & Answers
- 14:05-14:20 **Pilot experiences of area-wide promotion and adoption of fruit fly Integrated Pest Management Farmer Field Schools in lower Mekong River Basin countries**  
Prabhat Kumar  
*Asian Center of Innovation for Sustainable Agriculture Intensification (ACISAI)  
, Asian Institute of Technology, Pathum Thani Thailand*
- 14:20-14:35 **Effect of organic matter application, conservative tillage and reduced chemical fertilizer use on vegetable yield and soil organic carbon content on a volcanic ash soil in west Java, Indonesia**  
Tomohide Sugino  
*Japan International Research Center for Agricultural Sciences, Tsukuba, Japan*
- 14:35-14:50 **Production and utilization of organic inputs using beneficial microorganisms**  
Gloria Y. Ponciano  
*Tarlac College of Agriculture, Romulo, Camiling, Philippines*
- 14:50-15:00 Questions & Answers
- 15:00-15:30 Coffee/Tea Break
- 15:30-15:45 **Adoption, yield and profitability of tomato grafting technique in Vietnam**  
Christian A. Genova II  
*Consultant, ICF-GHK CONSULTING, Rebel Group, Philippines*
- 15:45-16:00 **Effect of trichoderma on horticultural crop cultivation**  
Ika Okhtora Angelia  
*Politeknik Gorontalo Jalan Sapta Marga Desa Panggulo Barat Kecamatan,  
Indonesia*

- 16:00-16:15 **Substitution of chemical fertilizer with vermicompost and its influence on production potential of cabbage (*Brassica oleracea L. var. capitata*)**  
Chinanshuk Ghosh  
*Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur, India*
- 16:15-16:30 Questions & Answers
- 16:30-16:45 **Biological control agent (*Metarhizium anisopliae*) against flea beetles on pechay**  
Eusebia R. Pagluan  
*Abra State Institute of Sciences and Technology Main Campus, Philippines*
- 16:45-17:00 **Yield and quality parameters of Bydagi chilli as influenced by nitrogen substitution and bio rational spray schedules**  
M. Shivaprasad  
*Department of Agronomy, University of Agricultural Sciences, Krishinagar, Karnataka India*
- 17:00-17:15 Questions & Answers
- 19:00-21:00 **Welcome Dinner**

### Session 3: From Harvest to Table

**Venue:** *Ladprao 3*

**Chair:** Gek Hoon Khoo  
*Director, Post-Harvest Technology Department  
Agri-Food & Veterinary Authority*

- 13:00-13:20 **Session Opening Speech:  
Linking vegetable growers to organized retail markets: the experience in India**  
P.G. Chengappa  
*National Professor of Indian Council of Agricultural Research (ICAR), Institute for Social and Economic Change, Bangalore, India*
- 13:20-13:35 **Participatory guarantee system (PGS) - the new way to achieve safe vegetables in farming context of Vietnam**  
Nguyen Thi Ha  
*Centre of Agrarian Systems Research and Development, Vietnam Agriculture Academic of Sciences, Ha Noi, Vietnam*
- 13:35-13:50 **Mapping vegetables - Understanding the food system of greater Bangkok, Thailand - A web-based collaborative research environment**  
Axel W. Drescher  
*Department of Environmental Social Sciences and Geography, University of Freiburg, Freiburg, Germany*
- 13:50-14:05 Questions & Answers
- 14:05-14:20 **Farmer's market in developing and developed countries**  
Prem Nath  
*Former Assistant Director General, Food & Agriculture Organization (FAO)  
Chairperson, Vegetable Science International Network (VEGINET),  
Karnataka State, India*
- 14:20-14:35 **From harvest to table: Enabling informed nutrition choices and greater access to nutritious vegetables in southern Bangladesh**  
Richard Rose  
*International Development Enterprises (IDE), Dhaka, Bangladesh*
- 14:35-14:50 **Effectiveness of Ca-salts in reducing HCN content of Jack bean legume seed (*Canavalia ensiformis*) and its products**  
Arpah M  
*Department of Food Science & Technology, Bogor Agricultural University,  
Bogor, Indonesia*
- 14:50-15:00 Questions & Answers
- 15:00-15:30 Coffee/Tea Break
- 15:30-15:45 **Nutrient composition and sensory evaluation of drumstick (*Moringa oleifera*, Lam) leaf products**  
Bhuvaneswari G  
*College of Horticulture , University of Horticultural Sciences, Karnataka, India*
- 15:45-16:00 **Farm profitability and value chain management: Case study from India**  
K.C. Siva Balan  
*Department of Agricultural Extension and rural Sociology, AD AC & RI Trichy,  
Tamil Nadu, India*

- 16:00-16:15 **From harvest to table: Enabling higher value production in vegetable supply chains through market-based interventions in the coastal chars of southern Bangladesh**  
MD. Nurul Amin  
*International Development Enterprises (IDE), Dhaka, Bangladesh*
- 16:15-16:30 Questions & Answers
- 16:30-16:45 **Survey and evaluation of tomato storage practices in Ilocos province, Philippines**  
Marissa I. Atis  
*Mariano Marcos State University, Ilocos Norte, Philippines*
- 16:45-17:00 **Characteristics and performance of tomato industry in Indonesia**  
Kuntoro Boga Andri  
*Assessment Institute for Agricultural Technology (BPTP), East Java, Indonesia*
- 17:00-17:15 Questions & Answers
- 19:00-21:00 **Welcome Dinner**

## Session 4: Cross-sectoral issues

**Venue:** *Ladprao 4*

**Chair:** Jintana Yhoun-Aree,  
Institute of Nutrition, Mahidol University, Salaya, Nakhon Pathom, Thailand

- 13:00-13:20 **Session Opening Speech:  
Lessons learned from implementing nutrition-sensitive agriculture as a platform to improve nutrition and household food security**  
Nancy J. Haselow  
*Vice President Asia-Pacific, Helen Keller International, Asia Pacific Regional Office, Phnom Penh Cambodia*
- 13:20-13:35 **Building capacities and strengthening market integration of small-scale farming systems through a demand-driven approach to technology transfer**  
Stuart Morris  
*East-West Seed International Limited, Yangon, Myanmar*
- 13:35-13:50 **Plant factories**  
Mike Nichols  
*Massey University, New Zealand*
- 13:50-14:05 Questions & Answers
- 14:05-14:20 **Research and development on vegetables and mushrooms project of Thailand Department of Agriculture**  
Grisana Linwattana  
*Horticulture Research Institute, Department of Agriculture, Bangkok, Thailand*
- 14:20-14:35 **Role of vegetables in rising food prices in India and its impact on the stakeholders**  
B. Singh  
*Indian Institute of Vegetable Research, Varanasi, India*
- 14:35-14:50 **The impact of new developments in small-scale vegetable production and marketing systems on food security and nutrition level of Sri Lanka**  
T.A. Dharmaratne  
*Hector Kobbekaduwa Agrarian Research and Training Institute, Colombo, Sri Lanka*
- 14:50-15:00 Questions & Answers
- 15:00-15:30 Coffee/Tea Break
- 15:30-15:45 **Improving vegetable small farm with marketing partnership**  
Sri Hery Susilowati  
*Indonesian Center for Agricultural Socio Economic and Policy Studies, Ministry of Agriculture, Bogor, Indonesia*
- 15:45-16:00 **Women in vegetable production: A way to empowerment**  
B. Singh  
*Indian Institute of Vegetable Research, Varanasi, India*
- 16:00-16:15 **Potential for diversity in tomato pigments for enhancing nutritive quality**  
Priyanka Biswas  
*Department of Vegetable Crops, Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India*
- 16:15-16:30 Questions & Answers

## 26 February 2014 (Wednesday)

### Session 1: Small-Scale Farming Systems

**Venue:** *Grand Ballroom B*

**Chair:** Christian Genova II  
Consultant, Agricultural Economics, Philippines

08:30-08:45 **An agronomic and economic study of rain shelter application for tomato production during hot season in East Java, Indonesia**

Evy Latifah  
*Assessment Institute for Agricultural Technology (BPTP) East Java, Indonesia*

08:45-09:00 **Role of vegetables for solving the micronutrient deficiency (the hidden - hunger) in Bangladesh**

Rahim MA  
*Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh*

09:00–09:15 Questions & Answers

09:15–09:30 **Improving supply chain for high value vegetable in Indonesia: The case of vegetable production system by smallholders in East Java**

Kuntoro Boga Andri  
*Assessment Institute for Agricultural Technology (BPTP) East Java, Indonesia*

09:30–09:45 **Economic and marketing of commercial vegetables in Barangay Banao, Bauko Mountain Province**

Noel T. Depalog  
*Mountain Province State Polytechnic College, Bontoc, Philippines*

09:45–10:00 Questions & Answers

10:00–10:30 Coffee/Tea Break

10:30-10:45 **Establishment of model home garden targeting poor women households and HIV victim members in per-urban area**

Habtamu Nibret  
*Amhara Agricultural Research Institute, Adet Agricultural Research Center, Bahir Dar, Ethiopia*

10:45-11:00 **Studies in response of onion (*Allium cepa* L.) to various levels and sources of sulphur**

S. Chattopadhyaya  
*Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India*

11:00–11:15 Questions & Answers

12:00–13:30 Lunch break

## Session 2: From Seed to Harvest

### Parallel session 2a: Germplasm and breeding

**Venue:** *Ladprao 1*

**Chair:** Robert de la Peña  
*Head, R&D Operations and Product Development  
East-West Seed International Ltd.*

- 08:30-08:45 **Developing methods to screen for heat tolerance in sweet peppers (*Capsicum annuum* L.)**  
Hsueh-ching Shieh  
*AVRDC - The World Vegetable Center, Shanhua, Tainan, Taiwan*
- 08:45-09:00 **Seed health: Innovations and best practices from the private sector**  
Prem Mehta  
*East West Seed International Limited, Bangkok, Thailand*
- 09:00–09:15 Questions & Answers
- 09:15–09:30 **Spine gourd: The golden vegetable of western Ghats**  
N. Basavaraja  
*College of Horticulture, Sirsi, University of Horticultural Sciences, Karnataka, India*
- 09:30–09:45 **Minerals content of yam (*Dioscorea* spp.) tuber parts during its growing process**  
Kouadio Claver Degbeu  
*Research Institute in Environment Protection of Abidjan, Côte d'Ivoire*
- 09:45–10:00 Questions & Answers
- 10:00–10:30 Coffee/Tea Break
- 10:30-10:45 **Evaluation of Turkish tomato lines on high temperature condition**  
Atilla Ata  
*Alata Horticultural Research Station, Erdemli/ Mersin, Turkey*
- 10:45-11:00 **Introgression of begomovirus and early blight resistance genes from *Solanum habrochaites* LA-1777**  
A.T. Sadashiv  
*Indian Institute of Horticultural Research, Bangalore, India*
- 11:00–11:15 Questions & Answers
- 11:15–11:30 **Breeding for virus resistance in squash**  
Rodel G Maghirang  
*Crop Science Cluster-Institute of Plant Breeding, College of Agriculture, University of the Philippines Los Baños, College, Laguna, Philippines*
- 11:30–11:45 **Ethnobotany, conservation and promotion of indigenous vegetables in Ilocos Norte, Philippines**  
Menisa A. Antonio  
*Research and Development Directorate, Mariano Marcos State University, City of Batac, Ilocos Norte, Philippines*
- 11:45–12:00 Questions & Answers

## **Session 2: From Seed to Harvest**

### **Parallel session 2b: Sustainable production**

**Venue:** *Ladprao 2*

**Chair:** Mohamad Roff Mohd. Noor  
*Pest and Diseases Management Division, Malaysian Agricultural Research and Development Institute (MARDI), Serdang Selangor, Malaysia*

- 08:30-08:45 **Organic vegetables in Asia**  
Ralph Houtman  
*FAO Regional Office for Asia and the Pacific, Bangkok, Thailand*
- 08.45-09.00 **Managing soil-borne and virus diseases in cucurbits through eco-friendly approaches**  
O. P. Dutta  
*Research and Development Unit, Namdhari Seeds Pvt. Ltd., Karnataka, Bangalore, India*
- 09.00–09.15 Questions & Answers
- 09.15–09.30 **Protected cropping in vegetables**  
Mike Nichols  
*Massey University, New Zealand*
- 09.30–09.45 **Sprouts and microgreens - a homestead vegetable production option to enhance food and nutrition security in the rural-urban continuum**  
Andreas W. Ebert  
*AVRDC - The World Vegetable Center, Shanhua, Tainan, Taiwan*
- 09.45–10.00 Questions & Answers
- 10.00–10.30 Coffee/Tea Break
- 10.30-10.45 **Management strategies evaluation for the control of the leafhopper, *Amrasca biguttula* and associated insect pests attacking *Hibiscus esculentus* L. for export sustainability of green okra**  
Manuelo V. Agsaoay  
*Tarlac College of Agriculture, Camiling, Tarlac, Philippines*
- 10.45-11.00 **Effects of accumulation of lead and macro-nutrient content of vegetables planted in an urban area in Ibadan, Nigeria**  
Olubunmi O. Fadina  
*Department of Crop Protection and Environmental Biology, University of Ibadan, Nigeria*
- 11.00–11.15 Questions & Answers
- 11.15–11.30 **The organic agriculture food chain of Camarines Sur, Bicol, Philippines**  
Ma. Cresilda Caning  
*Central Bicol State University of Agriculture, Bicol, Philippines*
- 11.30–12.00 Questions & Answers
- 12.00–13.30 Lunch break

### Session 3: From Harvest to Table

**Venue:** *Ladprao 3*

Chair: Gek Hoon Khoo  
*Director, Post-Harvest Technology Department  
Agri-Food & Veterinary Authority*

- 08:30-08:45 **Status of post-harvest losses and consumer level waste in vegetable supply chains in Asia: Their Impact on food security**  
Rosa S. Rolle  
*FAO Regional Office for Asia and the Pacific, Bangkok, Thailand*
- 08.45-09.00 **Improving the value chain and linking the market for vegetable growers in Bangladesh**  
Rahim M.A.  
*Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh*
- 09.00–09.15 Questions & Answers
- 09.15–09.30 **Vegetables to go school in Southeast Asia and Africa: Training of Trainers Workshop design and implementation**  
Usha Palaniswamy  
*AVRDC - The World Vegetable Center, Shanhua, Tainan, Taiwan*
- 09.30–09.45 **Healthy diets for better nutrition**  
Nomindelger Bayasgalanbat  
*FAO Regional Office for Asia and the Pacific, Bangkok Thailand*
- 09.45–10.00 Questions & Answers
- 10.00–10.30 Coffee/Tea Break
- 10.30-10.45 **Selection of cassava (*Manihot esculenta* Crantz) accession and processing of leaf for use as a protein rich vegetable in Bangladesh**  
Fakir S.A.  
*Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh*
- 10.45-11.00 **Moringa - an indigenous high value vegetable crop can play a great role in nutrition and poverty alleviation in Bangladesh**  
Rahim M.A.  
*Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh*
- 11.00–11.15 Questions & Answers
- 12.00–13.30 Lunch break

## Session 5: Enabling policies

**Venue:** *Ladprao 4*

Chair: Grisana Linwattana,  
*Senior Research Scientist  
Horticulture Research Institute, Department of Agriculture, Bangkok, Thailand*

- 8:30- 08:50 **Session Opening Speech:  
Rural Bio-Resource Complex Project, a model integrated agricultural development leads to economic growth**  
K.C. Narayanaswamy  
*University of Agricultural Sciences, GKVK, Bangalore, India*
- 08.50-09.05 **Good agricultural practices for sustainable vegetable production in humid tropics**  
Nirmala Devi S  
*All India Coordinated Research Project (AICRP) on Vegetable Crops, College of Horticulture, Kerala Agricultural University, India*
- 09.05–09.20 Questions & Answers
- 09.20–09.35 **Vegetable consumption at household level and its implication on vegetable farming development in Indonesia**  
Hadewi P. Saliem  
*Indonesian Center for Agricultural Socio Economic and Policy Studies, Bogor, Indonesia*
- 09.35–09.50 **Women's home gardens and food security: Evidence from Bangladesh**  
Pepijn Schreinemachers  
*AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan*
- 09.50–10.00 Questions & Answers
- 10.00–10.30 Coffee/Tea Break
- 10.30-10.45 **Enhancing competitiveness of smallholder vegetable producers in the Southern Philippines: The role of local government**  
Luis Antonio Hualda  
*School of Management, Curtin University, Perth, Western Australia, Australia*
- 10.45-11.00 **Thai consumer valuation of food safety labels on fresh products**  
Rungsaran Wongprawmas  
*Department of Agricultural Sciences - Division Agricultural Economics and Appraisal, Alma Mater Studiorum-University of Bologna, Italy*
- 11.00–11.15 Questions & Answers
- 11.15–11.30 **Growing forward: The potential of horticulture in the agriculture, rural and food policy adjustments of ASEAN Economic Community (AEC) member states**  
Patrick O'Reilly  
*Crops for the Future Research Centre(CFFRC), Selangor, Malaysia*
- 11.30–11.45 **Vegetable research and development in Central Luzon, Philippines**  
Quirino D. dela Cruz  
*Central Luzon State University, Nueva Ecija, Philippines*
- 11.45–12.00 Questions & Answers

**Side Event: Public and Private Sector Collaborations and Benefits for the Farmers  
Asia & Pacific Seed Association (APSA) and AVRDC – The World Vegetable Center**

**Venue:** *To be announced*

**Chair:** Tom Burns  
*Director, Asia & Pacific Seed Association (APSA), Bangkok, Thailand*

10:30-10:50 **AVRDC Tomato Yellow Leaf Curl Virus and Bacterial Wilt  
collaborations with the seed industry and seed distribution**  
Peter Hanson  
*AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan*

10:50-11:10 **Bacterial Wilt resistances from AVRDC, use in seed industry and some  
rough figures on value added and significance of those resistances in  
the market**  
Simon Jan De Hoop  
*East West Seed International Limited, Bangkok, Thailand*

11:10–11:30 **Use of TY material from AVRDC by the seed industry**  
Narendra Singh  
*Research Director Asia, HM-Clause*

11:30–12:00 **Panel discussion on collaborations between public and private sector**

12:00–13:30 Lunch break

**Poster Session**

**Venue:** *To be announced*

13:30-14:30 **Poster Session**  
*Poster presenters are responsible will be required to stand next to their poster to  
answer questions.*

14:30-15:00 Coffee/Tea Break

## **Closing Session (Plenary)**

**Venue:** Grand Ballroom B

- 15:00- 15:20 **The Global Horticulture Initiative – Challenges and prospects for Southeast Asia**  
Detlef Virchow  
*Executive Secretary, Global Horticulture Initiative (GlobalHort), Bonn, Germany*
- 15.20-15.40 **The Indian vegetable research programme and its application in Asia**  
N.K. Krishna Kumar  
*Deputy Director General (Horticulture), Indian Council of Agricultural Research, New Delhi, India*
- 15.40–16.00 **Scaling up technologies for small scale vegetable farming systems in Southeast Asia**  
Gary Jahn  
*Agricultural Development Officer, United States Agency for International Development (USAID), Bureau for Food Security, Office of Agricultural Research and Policy, Washington D.C.*
- 16.00–16.45 **Roundtable Colloquium:**  
**SEAVEG 2014: Recommendations for policy makers, civil society and private business sector, farmers, and research and development organizations**
- Hiroyuki Konuma, *Assistant Director-General and Regional Representative FAO Regional Office for Asia and the Pacific*
  - Jacqueline Hughes, *Deputy Director General - Research, AVRDC – The World Vegetable Center*
  - Joost Pekelharing, *President of East West Seed Group, East West Seed International limited*
  - Prem Nath, *Chairperson, Vegetable Science International Network (VEGINET)*
  - Suwit Chaikiattiyos, *Deputy Director General, Department of Agriculture*
  - Nancy J. Haselow, *Vice President Asia-Pacific, Helen Keller International,*
  - Detlef Virchow, *Executive Secretary, Global Horticulture Initiative (GlobalHort)*
  - N.K. Krishna Kumar, *Deputy Director General (Horticulture), Indian Council of Agricultural Research*
  - Gary Jahn, *Agricultural Development Officer, United States Agency for International Development (USAID), Bureau for Food Security*
- Moderator  
Robert J Holmer  
*Regional Director East and Southeast Asia, AVRDC – The World Vegetable Center*
- 16.45–17.30 **Plenary discussion on symposium recommendations**
- 17.30–17.50 **Best oral paper award and Best poster award**
- 17.50–18.00 **Closing remarks**  
Robert J. Holmer  
Regional Director, AVRDC East and Southeast Asia

### **Masters of Ceremony:**

#### **Sheila Aclo de Lima**

*Administrative and Training Officer, AVRDC – The World Vegetable Center, Bangkok, Thailand*

#### **Orathai Wongmetha**

*Department of Agriculture, Bangkok, Thailand*

## 27 February 2014 (Thursday)

### Field trip

- 08:00      **Departure**  
Hotel Lobby
- 10:00      **Arrival**  
Kasetsart University Kampangsaen Campus
- 11:30      **Departure**
- 12:00      **Lunch break**
- 13:30      **Departure**
- 14:00      **Arrival**  
East West Seed International Limited  
(Hortigenetics Research, S.E. Asia, Limited)  
33 M. 4 T. Nongbo, Songpenong, Suphanburi 72190
- 16:30      **Departure**
- 17:30      **Arrival at Hotel**

More details about the field trip will be provided in a separate document