

CONTRIBUTED PAPER SESSION 1-1

DIMENSION OF THE PROBLEM

Chair: Phrek Gypmantasiri, Chiang Mai University, Thailand

1. Ongoing Degradation of Land and Depletion of Water Resources in Southeast Asia, and its Consequences for Income Generation and Food Security

Frits Penning de Vries¹, D. Molden², International Water Management Institute, ¹Bangkok, Thailand and ²Colombo, Sri Lanka

2. Vulnerability as Viewed from Different Disciplines

Jeffrey Alwang¹, Paul Siegel², Steen L. Jorgensen², ¹Virginia Tech, USA, ²The World Bank, Washington, USA

3. The Nutrition Status of Children in Vietnam

Thi Bich Van Nguyen, The Center for Public Health and Development, Hanoi, Vietnam

CONTRIBUTED PAPER SESSION 1-2

TARGETING THE POOR - POLICY ISSUES

Chair: Benchaphun Ekasingh, Chiang Mai University,
Thailand

1. Do Microfinance and Social Safety Net Programs Reach the Poor? Empirical Evidence from Indonesia and Mexico

Manfred Zeller, Meike Wollni, Ahmed Abu Shaban,
University of Göttingen, Germany

2. A Key Challenge in the 21st Century: Sustainable Food Production – Trends and Perspectives for Southeast Asia until 2025

Manfred Kern, Aventis CropScience, Frankfurt, Germany

3. A Review of Food Security and Animal Production in Vietnam

Viet Ly Le, National Institute of Animal Husbandry, Hanoi,
Vietnam

CONTRIBUTED PAPER SESSION 1-3

INTERNATIONAL AGREEMENTS AND TRADE LIBERALIZATION

Chair: Supriya Kuandachakupt, Kasetsart University,
Bangkok, Thailand

1. How International Agreements Complicate the Management of Plant Genetic Diversity for Food and Agriculture in Developing Countries

Regine Andersen, Fridtjof Nansen Institute, Lysaker, Norway

2. Cambodia's Agricultural Sector in the ASEAN Free Trade Area

Sophal Chan, Cambodia Development Resource Institute,
Phnom Penh

3. Environmental and Food Safety Standards and International Trade: Concerns and Challenges for Developing Countries

Ulrike Grothe, Center for Development Research, Bonn
University, Germany

CONTRIBUTED PAPER SESSION 1-4

NEW APPROACHES TO SUSTAINABLE RESOURCE USE

Chair: Andrea Fadani, Eiselen Foundation, Germany

1. Collective Creation of Artificial Worlds help Govern Concrete Natural Resource Management Problems: A Northern Thailand Experience

Guy Trebuil¹, F. Bousquet¹, C. Baron², B. Shinawatra-Ekasingh³, ¹International Rice Research Institute, Bangkok, Thailand, ²Cirad-Amis, Montpellier, France, ³Chiang Mai University, Thailand

2. New Approaches to Support Development of Sustainable Land Use Systems

Herman van Keulen¹, M.K. van Ittersum¹, R.P. Roetter^{1,2}, N. de Ridder¹, C.T. Hoanh², ¹Wageningen University, The Netherlands, ²International Rice Research Institute, Manila, Philippines

3. It Takes a Village to Raise a Pigovian Tax...or does it take more?... Prospects for Devolved Watershed Management in Developing Countries

Ian Coxhead, University of Wisconsin, Madison, USA

CONTRIBUTED PAPER SESSION 2-1

FOREST MANAGEMENT AND DEFORESTATION

Chair: Pittaya Sruamsiri, Chiang Mai University, Thailand

Discussant: Paciencia Milan, Visayas State College of
Agriculture, Leyte, Philippines

**1. Shifting Cultivation and Health Conditions of the Karen Hill
Tribe in Northern Thailand: Connection and Sustainable
Intervention**

Prasit Wangpakapattanawong¹, Prasong Tienboon¹, David.
Thomas², J.P. Kimmins³, ¹Chiang Mai University, Thailand,
²International Centre for Research in Agroforestry, Chiang Mai,
Thailand, ³The University of British Columbia, Vancouver,
Canada

2. Deforestation and Productivity Growth in Thai Agriculture

Wirat Krasachat, King Mongkut's Institute of Technology
Ladkrabang, Bangkok, Thailand

**3. Community Forestry for Sustaining Forest Resource and
Securing Forest Foods in Cambodia: An Ongoing Evaluation
on a Community Forestry Project**

Heng Sokh, Sigeru Iida, Kyushu University, Fukuoka, Japan

CONTRIBUTED PAPER SESSION 2-2

LOCAL STRATEGIES

Chair: The Dang Nguyen, Thai Nguyen University, Hanoi,
Vietnam

1. Survival Strategies of Ethnic Minorities in the Highlands of Northern Thailand – Case Studies from Chiang Rai Province

Judith Knüpfer, University of Hohenheim, Germany

2. Overcoming Inefficient Land-Holding of Part Time and Absent Small Farmers – A Challenge to Nobel Laureate Th. W. Schultz

Jian-Ming Zhou, University of Florence, Italy

3. Sustainable Livelihoods and Migration in Vietnam: The Importance of Social Capital as Access to Resources

Alexandra Winkels, W. Neil Adger, University of East Anglia,
Norwich, United Kingdom

CONTRIBUTED PAPER SESSION 2-3

LOCAL KNOWLEDGE AND PEOPLE'S PARTICIPATION

Chair: Andreas Neef, University of Hohenheim, Germany

1. Participatory Agricultural Research and Decentralization in Vietnam

Meike Geppert¹, The Dang Nguyen², Gertrud Buchenrieder¹,
¹University of Hohenheim, Germany, ²Thai Nguyen University,
Vietnam

**2. Natural Resource Management through Rural Cooperatives:
Issues of People's Participation and Monitoring**

Basireddy Sudhakara Reddy, Indira Gandhi Institute of
Development Research, Mumbai, India

**3. Hmong Resource Use Systems at the Local Level in Northern
Thailand and their Potential for Sustainable Development**

Maren Tomforde¹, Carsten Riedel², Win Ledchaisahakun³,
¹University of Hamburg, Germany, ²University of Hohenheim,
Germany, ³Chiang Mai University, Thailand

CONTRIBUTED PAPER SESSION 2-4

DECISION MAKING

Chair: Elke Foerster, GTZ/GFA, Hanoi, Vietnam

1. Development Objectives and Their Trade-Offs at the Farm Household Level in Central Sulawesi, Indonesia

Teunis van Rheenen^{1,2}, Stefan Schwarze¹, Christine Elbel¹, Georg Dechert¹, Nunung Nuryartono², Manfred Zeller¹, ¹University of Goettingen, Germany, ²Institut Pertanian Bogor, Indonesia

2. Negotiated Land Use Patterns to meet Local and Societal Needs in Northern Thailand

David Thomas, Horst Weyerhaeuser, Pornwilai Saipothong, International Center for Research in Agroforestry, Chiang Mai, Thailand

3. The Mekong Remote Sensing Initiative (MRSI): Building Capacity through a Comprehensive Land Cover Change Analysis

Suteera Nagavajara¹, Lars Bromley¹, Honda Kiyoshi², John Musinsky³, Marc Steininger³, ¹American Association for the Advancement of Science, Washington D.C., USA, ²Asian Institute of Technology, Bangkok, ³Center for Applied Biodiversity Science, Conservation International

CONTRIBUTED PAPER SESSION 3A - 1

RICE AND FOOD SECURITY

Chair: Somporn Isvilanonda, Kasetsart University, Bangkok, Thailand

**1. Hybrid Rice Technology for Food Security in the Tropics:
Can the Chinese Miracle be Replicated in Southeast Asia**

Aldas Janaiah¹, Mahabub Hossain¹, C. B. Casiwan², and T. T. Ut³,

¹International Rice Research Institute, Manila, Philippines,

²Philippines Rice Research Institute, Nueva Ecija, Philippines,

³University of Agriculture and Forestry, Ho Chi Minh City, Vietnam.

**2. Impact of Modern Technology on Rice Production and its
Role in Income Distribution and Poverty Alleviation in the
Mekong Delta of Vietnam**

Ngoc Thanh Duong¹, Hossain Mahabub², Ut Tran Thi³, et al.⁴,

¹Cantho University, Vietnam, ²International Rice Research
Institute, Los Baños, Philippines, ³University of Agriculture and

Forestry, Hanoi, Vietnam, ⁴Agricultural Transfer Technology
Center of Angiang, Tiengiang, Travinh and Soctrang Provinces,
Mekong Delta of Vietnam.

**3. Effects of Increasing Cropping Intensity on Rice Production
in Myanmar**

Soe Soe Thein¹, Tin Aye Aye Naing¹, Maria Finckh² Andreas
Buerkert², ¹Yezin Agricultural University, Myanmar,

²University of Kassel, Germany

CONTRIBUTED PAPER SESSION 3A - 2

MARKETS – AGRICULTURAL PRODUCTIVITY AND FOOD SECURITY

Chair: Sarun Wattanutchariya, Kasetsart University, Bangkok, Thailand

1. Market Access and Agricultural Productivity in Doi Inthanon Villages

Angela Maria Hau, Matthias von Oppen, University of Hohenheim, Germany

2. The Effects of Population Pressure and Market Access on Food Security and Poverty in the Uplands of Southeast Asia: Some Insights from Northern Vietnam

Pandey Sushil¹ Tri Khiem Nguyen², ¹International Rice Research Institute, Makati City, Philippines, ²An Giang University, Long Xuyen City, Vietnam

3. Information Systems in Rural Financial Intermediation in Northern Vietnam

Thomas Dufhues¹, Quoc Oanh Nguyen², Pham Thi My Dung², Ha Thi Hanh³, Gertrud Buchenrieder¹, ¹University of Hohenheim, Germany, ²Hanoi Agricultural University³, Vietnam Bank for the Poor, Hanoi, Vietnam

4. Comparative Advantage: Changing Market Structures and Food Security in the Sii Phan Don Fishery, Lao P.D.R.

Simon Bush, Australian Mekong Resource Centre, Sydney, Australia

CONTRIBUTED PAPER SESSION 3A - 3

NATURAL RESOURCE MANAGEMENT SYSTEMS

Chair: Thanwa Jitsanguan, Kasetsart University, Bangkok,
Thailand

**1. Improvement of Crop-Animal Systems and Rainfed
Agriculture to Sustain Food Security and Livelihoods in
Southeast Asia**

Canagasaby Devendra, Danilo Pezo, International Livestock
Research Institute, Kuala Lumpur, Malaysia

**2. Food, Forest, Soil and Water Management in Vietnam:
Challenges of Institutional Development**

Pascal Bergeret, Groupe de Recherches et d'Echanges
Technologiques, Paris, France

**3. Linking Socio-Economic Data with GIS and Remote Sensing.
Regional Zone Formation for the Mountains of NW Vietnam**

Peter Lentjes, University of Hohenheim, Germany

**4. Impact of Technological Change on Resource Utilization and
Management in Highland Agriculture: A Case Study of Wat
Chan Catchment, Chiang Mai Province**

Chakrit Potchanasin, Penporn Janekarnkij, Kasetsart
University, Bangkok, Thailand

CONTRIBUTED PAPER SESSION 3A - 4

WATER RESOURCE USE

Chair: Frits Penning de Vries, International Water Management Institute, Bangkok, Thailand

1. Farmers' Preferences for Agricultural Activities under Limited and Uncertainty Water Condition in the Chao Phraya Basin, Thailand

Acharee Sattarasart, Sombat Sae-Hae, Kamonpan Khaobanpaew, Thailand Development Research Institute Foundation, Bangkok, Thailand

2. Cambodian Food Security and the Flood-pulsed Tonle Sap Area: The Case for Ecological Economic Modelling

Taber Hand, University of Maryland, College Park, Maryland, USA

3. Contribution of Fish to Sustainable Food Supply

Ulfert Focken, University of Hohenheim, Germany

CONTRIBUTED PAPER SESSION 3B - 1

SUSTAINABLE LAND MANAGEMENT

Chair: Chau Thu Dao, Hanoi Agricultural University, Vietnam

1. Sustaining Success and Learning from the Experience: A Case Study of Thanh Ha Watershed, Vietnam

A. Ramakrishna¹, Dinh Long Tran², Hoang Minh Tam², S. P. Wani¹, ¹International Crops Research Institute for the Semi-Arid Tropics, Patancheru, India, ²Vietnam Agricultural Science Institute, Hanoi, Vietnam.

2. Land Management Options for Reducing Soil Erosion in the Sloping Uplands

Amado R. Maglinao¹, Frits Penning de Vries¹, F. Agus², R.O. Ilao³ and T.D. Toan⁴, ¹International Water Management Institute, Bangkok, Thailand, ²Center for Soil and Agroclimate Research and Development, Bogor, Indonesia, ³Philippine Council for Agriculture, Forestry and Natural Resources Research and Development, Los Banos, Laguna, Philippines, ⁴National Institute for Soils and Fertilizers, Hanoi, Vietnam

3. Economic and Environmental Performance of Alternative Vegetable production Systems in Thailand

Bernd Hardeweg^{1,2}, Hermann Waibel², ¹Asian Institute of Technology, Pathum Thani, Thailand, ²University of Hannover, Germany

CONTRIBUTED PAPER SESSION 3B - 2

RICE BASED PRODUCTION SYSTEM

Chair: Guy Trebil, International Rice Research Institute,
Bangkok, Thailand

1. The Productivity of Pesticide Use in Rice Production of Thailand: A Damage Control Approach

Suwanna Praneetvatakul¹, D. Kuwattanasiri¹, Hermann Waibel², ¹Kasetsart University, Bangkok, Thailand, ²University of Hannover, Germany

2. The Role of Azolla Cover in Improving the Nitrogen Use Efficiency of Lowland Rice

Maria Andrea de Macale¹, P.L.G. Vlek¹, G.O. San Valentin²,
¹Center for Development Research, Bonn University, Germany,
²Philippine Rice Research Institute, Los Banos, Laguna,
Philippines

CONTRIBUTED PAPER SESSION 3B - 3

TECHNOLOGY ASSESSMENT

Chair: Manfred Kern, Aventis CropScience, Frankfurt, Germany

1. Non-Destructive Determination of Fruit Maturity of Thai Mango Cultivars by Near Infrared Spectroscopy

Busarakorn Mahayothee^{1,2}, Martin Leitenberger², Sybille Neidhart², Werner Mühlbauer², Reinhold Carle², ¹Silpakorn University, Nakhon Pathom, Thailand, ²Hohenheim University, Germany

2. Physical, Chemical and Sensory Properties of 9 Thai Mango Cultivars and Evaluation of their Technological and Nutritional Potential

Ana Lucia Vásquez-Caicedo¹, Sybille Neidhart¹, P.Pathomrungruangsyounggul², P.Wiriyacharee², A. Chattrakul², Pittaya Sruamsiri², P. Manochai³, Fritz Bangerth¹, Reinhold Carle¹, ¹Hohenheim University, Germany, ²Chiang Mai University, Thailand, ³Maejo University, Chiang Ma, Thailand

3. Towards a Technical Efficient Production of Rural Aquaculture, Case Study at Lake Maninjau, Indonesia

Abdullah Munzir, Franz Heidhues, University of Hohenheim, Germany