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XXIII International Conference of Agricultural Economists*

August 10–16, 1997
Sacramento, California, U.S.A.
Hyatt Regency at Capitol Park
Convention Center, Sacramento

Food Security, Diversification, and Resource Management: Refocusing the Role of Agriculture?

Organizing Committees

Program Committee:

Overall Program Coordination (Chair): Joachim von Braun

Contributed Paper Organization: Peter Hazell

Posters and Computer Session Organization: Arie Oskam

Discussion Group/Mini Symposia Organization: Larry Sivers

US Organizing Committee (Chair): Nicole Ballanger

Local Organizing Committee (Chair): Jerome B. Siebert

* The program for the XXIII International Conference of Agricultural Economists is printed here as it appeared prior to the first day of the conference. For late changes in the program, please consult “Food Security, Diversification and Resource Management: Refocusing The Role of Agriculture” edited by G.H. Peters and Joachim von Braun (Dartmouth Publishing 1988)

A Statement from Joachim von Braun
Chair, Program Committee

IAAE's Purpose

The IAAE is the worldwide association of agricultural economists, and others concerned with agricultural economic problems, organized to:

- foster the application of agricultural economics to improve rural economic and social conditions;
- advance knowledge of agriculture's economic organization; and
- facilitate communication and information exchange among those concerned with rural welfare

IAAE was founded in 1929 and has about 1800 members from 90 countries.

Renewed Attention to Food and Agricultural Economics and Toward a Broader Agenda

The conference takes place in the context of renewed attention to food and agriculture issues by policymakers, and the general public. This growing attention has different reasons, say in rich and poor countries, in rapidly growing economies, and in economies contracting under economic transformation. However, there has never been a larger potential benefit to learn from different regional experiences with food and agriculture than in the rapidly globalizing world food economy of today. At the same time, the applicability and limitations of past theories, concepts, and methods require our renewed attention as agricultural economic researchers. The agenda we have to cover is broadening from "Agriculture" toward "Food Security, Diversification, and Resource Management." The XXIII IAAE Conference in Sacramento is the academic world forum for the economic aspects of this agenda.

IAAE Research and Policy Issues Addressed in the XXIII International Conference

The XXIII Conference addresses a set of important inter-related research and policy issues challenging world agriculture well into the next century.

- World food demand is projected to double in the next thirty years.
- There are challenges for sustaining the natural resource base while meeting future food demands.
- Land and water scarcity in many regions call for efficient institutional arrangements.
- Changing diets in rapidly developing countries increase demand for a broader range of food choices.
- Increasing market segmentation in response to new demand requires renewed attention to demand analysis.
- Rapid urbanization requires consideration of rural-urban linkages.
- Rapid changes in technology, both biological and informational, present new opportunities for managing agricultural production and marketing.
- Evolving agricultural policies create a need for new institutional arrangements at local, national, and international levels.
- Market policy changes require attention to new concepts, program design, and approaches to policy analysis.
- Increasing off-farm activity, providing production inputs, and adding value to agricultural products will continue to broaden what has traditionally been referred to as agriculture.
- Rapid communications and world economic linkages create new dynamics in agriculture that are increasingly complex to analyze.

Thanks to Colleagues and Donors

IAAE is broadly based in our profession. At the beginning of 1997, there are about 150 colleagues in many different countries committing considerable time and effort on organizational and review matters to make this conference a professional success for all participants. IAAE's functioning largely depends upon professional cooperation. The service to our profession by the local organizing committee, the plenary and panel session organizers, the contributed paper, the poster/computer session, and discussion group organizers and their review teams spread over the world is greatly acknowledged.

A number of countries and organizations have contributed funds to assist us in bringing colleagues from low-income countries and transforming economies, unable to obtain funding from other sources, to the conference. We gratefully acknowledge the related support of Denmark, Japan, Germany, United Kingdom, Switzerland, Ford Foundation, Rockefeller Foundation, and possible others to join the growing group of IAAE donors.

Overview of Conference Structure

The international community of agricultural economists will actually shape the conference content through Plenary Sessions, Invited Panel Discussions, Contributed Paper Sessions, Poster and Computer Sessions and Discussion Groups/Minisymposia.

Plenary Sessions

There will be four plenary sessions with three presentations each. Each plenary session will consist of a team of leading agricultural economists from various regions of the world including chairperson, three paper presenters, and discussion openers.

Invited Panel Discussions

The panels are mostly related to aspects of the conference theme. They are mechanisms to provide opportunity for more discussion, especially with users of agricultural economics research findings, include room for methodological focus (in a few panels), and provide a means to focus the themes of the conference on main developing country regions.

Contributed Paper Sessions

These are papers addressing any agricultural economics these. On four conference days, there will be eight contributed paper time slots, with four concurrent sessions each. The number of appears in each session is expected to be three or four. The Contributed Paper Sessions are organized by Peter Hazell and will be refereed by an international panel of subject matter experts using a blind review process. A total of about 100 contributed papers will be selected for presentation at the conference, more than twice as many as previously.

Poster and Computer Sessions

Poster sessions are redesigned to substantially upgrade their role in the conference. These sessions are scheduled in prime time to create a marketplace for exchange of ideas and research findings. Computer-based presentations and relevant software information will be a new feature, supplementing the poster presentations. The Post and Computer sessions are organized by Arie Oskam.

Discussion Groups/Minisymposia

The highly stimulating discussion groups and minisymposia facilitate professional exchange as well as friendship among members. The discussion Group/Minisymposia sessions are organized by Larry Sivers.

Procedure for Selecting Blue Book and Special Issue Manuscripts

Our decision on publication of the contributed papers from the 23rd International Conference were guided by the following process:

1. Screening by the Contributed Papers Selection Committee headed by Peter Hazell. Over three hundred papers were submitted. One hundred eleven of the submitted papers were selected for presentation at the IAAE Conference, and 72 of the 111 papers were identified for further review for possible publication.
2. The 72 papers identified for possible publication were then blind reviewed under the auspices of the Editorial Board of Agricultural Economics.
3. Written comments were received from the discussants of the contributed papers at the IAAE meetings.
4. At the 23rd International Conference in Sacramento, California, Peter Hazell, George Peters, and Stanley Johnson selected a final set of 45 contributed papers. Twenty-two papers were selected to be published in the Conference Blue Book, edited by George Peters. Twenty-three papers were chosen for publication in the Special Issue of the Journal, which is to be guest edited by Peter Hazell.

Conference Program

Sunday, August 10, 1997

13:00–13:45 Opening, Convention Center
Chairperson: Csaba Csaki, Past President IAAE

Welcome to the XXIIIrd Conference of IAAE
Nicole Ballenger, Chair, US Organizing Committee
Walter J. Armbruster, President of AAEA

Introduction to the Program and Conference Theme
Joachim von Braun, Vice President Program, IAAE

Opening Address

Richard Rominger, Deputy Secretary, US Department of Agriculture

13:45–14:30 Presidential Address, Convention Center
Robert Thompson, President IAAE

14:30–15:30 Elmhurst Lecture, Convention Center
“The Dynamics of Agriculture”

Yair Mundlak, The Hebrew University of Jerusalem, Israel, University of Chicago, USA

15:30–16:00 Break

16:00–18:30 Panel Session 1 (5 Concurrent)

Panel 1: Agricultural History—Lessons From Agricultural Development

Organizer and Chairperson: Vernon W. Ruttan, University of Minnesota, USA

Rapporteur: Regina Birner, University of Goettingen, Germany

Technical Changes in US Agricultural History: A Perspective on the Induced Innovation Hypothesis: Alan L. Olmstead, University of California-Davis, USA

Contract Choice: Land and Labor Relationships in China in the Imperial, Communist and Post Communist Period: Lauren Brandt, University of Toronto, Canada

Historical Change in Land-Labor Relationships in Western Europe: Gunther Schmitt, Heinrich Hockmann, University of Goettingen, Germany

Between Political Control and Efficiency Gains: The Evolution of Agrarian Property Rights in Mexico: Alain de Janvry, University of California-Berkeley, USA; Gustavo Gordillo, FAO; Elisabeth Sadoulet, University of California-Berkeley, USA

Contract Choice and Tenure Relations During the Pre-Colonial, Colonial and Post Colonial Periods in India: Vasant Sukhatme, Macalester College, USA

A Comparative Perspective on Change in Technology and Land-Labor Relationships: Hans P. Binswanger, World Bank

Panel 2: Rural Development and Agrarian Reform: Institutional Constraints and Innovations

Organizer and Chairperson: Laurent Martens, University of Gent, Belgium

Rapporteur: Abdul Bayes, Jahangirnagar University, Bangladesh

Rural Development and Agrarian Reform in Southern Africa Redistribution of Land and Water Use Rights: Johan Van Zyl, Johan Kirsten, University of Pretoria, South Africa

Innovations in Financial Markets: Implications for Rural Development: Richard L. Meyer, Geetha Nagarajan, Ohio State University, USA

Rural Development and Farm Structures in Transition: Franciszek Tomczak, Warsaw School of Economics, Poland

Rural Development and Family Farms in Globalized Economy: Fordism vs Nichism in Japanese Experiences: Yoshio Kawamura, Ryokoku University, Japan

Panel 3: Agricultural Research and Extension Systems: The Past 25 Years, Current Crises, Future Orientation and Economic and Institutional Implications

Organizer and Chairperson: Derek Byerlee, World Bank

Rapporteur: Joseph Karugia, University of Alberta, Canada

Financing Agricultural Research: International Investment Patterns and Policy Perspectives: Phil Pardey, Julian Alston, and Johannes Roseboom, IFPRI

Restructuring Agricultural Research Systems to Support Smallholders in Southern Africa: Mandvambai Rukuni, University of Zimbabwe; Malcom Blackie, Rockefeller Foundation, Malawi; Carl Eicher, Michigan State University, USA

Agriculture Research and Extension Systems: Future Orientation of the NARS: Dr. Mruthyunjaya, ICAR, India

Investing in Agricultural Technology in Latin America: Ruben Echeverria, Inter-American Development Bank

Panel 4: Trade Agreements: Implementation, Experiences, and Implications

Organizer and Chairperson: Daniel A. Sumner, University of California-Davis, USA

Rapporteur: Monika Hartmann, University of Halle, Germany

A Cairns Group Perspective and Information on Environmental Issues, and the Agriculture/Non-Agriculture Perspective: Kym Anderson, University of Adelaide, Australia

Perspectives from Less Developed, Food Importing Countries with Large Agricultural Industries: Harbinderjit S. Dillon, Ministry of Agriculture, Indonesia

A Perspective from Developed Countries: Subsidized Exporters in North America and Europe: Tim Josling, Stanford University, USA; and Stefan Tangermann, University of Goettingen, Germany

Trade Agreements: A Policy Makers and Implementers Perspective: John Slater, Ministry of Agriculture, UK

A Perspective from a Food Importer that has Recently Joined the Developed Countries: Jaeok Lee, Korean Rural Economic Institute, Korea

Panel 5: New Approaches to 'Alternative' Agriculture in High- and Low-Income Countries and Their Economic Aspects

Organizer and Chairperson: Olvar Bergland, Agricultural University of Norway

Rapporteur: Latha Nagarajan, M.S. Swaminathan Research Foundation, India

Policy Approaches Towards Alternative Agriculture: Ian Hodge, Cambridge University, UK

Innovations in Alternative Agriculture Policy to Capture Full Natural Resource Values: David E. Ervin, Henry A. Wallace Institute for Alternative Agriculture USA; Katherine R. Smith, U.S. Department of Agriculture; Elizabeth Higgins, USA

Evaluating Alternative Agricultural Systems: An Approach for Integrating Economic, Environmental, and Social Information: Elisabeth Dunn, University of Missouri, USA

Superlative Index Numbers as Measures of the Productivity and the Relative Efficiency of Alternative Agricultural Practices in Low Income Countries: Simeon K. Ehui, International Livestock Research Institute, Ethiopia

19:30–21:30 RECEPTION, Regency Ball Room

Monday, August 11, 1997

8:30–10:30 Plenary Session 1, Regency ABC

Food Security and Demand Challenges: Global Level Issues, National Policy Issues, Household Consumption Improvement

Chairperson: Ruvimbo Chimedza, University of Zimbabwe

Rapporteur: Kizito Langha, Rural Development Resource Center, Cameroon

Food Security: A Global Perspective: Per Pinstrup-Andersen, Rayul Pandya-Lorch, IFPRI; Discussion Opener: Eugenia Muchnik de Rubinstein, CEPAL, Chile

Food Security: a National Policy Perspective for India: C.H. Hanumantha Rao, University of Hyderabad, R. Radhakrishna, Indian Council of Science Research, India; Discussion Opener: Anthony Ikpi, University of Ibadan, Nigeria

Food Security and the Household: Ben Senauer, Terry Roe, University of Minnesota, USA Discussion Opener: Luciano Venturini, Università Cattolica Piacenza, Italy

10:30–11:00 Break

11:00–12:30 Poster/Computer Presentation 1

Poster Session

1. Food Security (Micro)Guidance: G. Nagarajan (Ohio State University)
2. Research MethodologyGuidance: H. Guyomard (INRA-ERS) / R. Tiffin (University of Durham)
3. Marketing (General) Guidance: Z. Hassan (Agricultural Canada) / W. Florkowski (University of Georgia)
4. Technological Development (Technical Change)Guidance: M. Trueblood (USDA-ERS)
5. Resource Management (Institutional)Guidance: S. Makki (USDA-ERS)
6. Economics of Policy and Institutional Change (General)Guidance: J. Kola (University of Helsinki) / L. Unnevehr (University of Illinois)
7. Economics of Policy and Institutional Change (Economic Analyses)Guidance: M. Veeman (University of Alberta)

Computer Sessions

1. Agricultural Production
2. Economics of Policy
3. Teaching and Extension
4. Research Methodology Guidance: R. Huirne (Wageningen Agricultural University)

12:30–14:00 Lunch & Visit to Posters at Leisure

14:00–15:30 Contributed Paper Session 1 (5 Concurrent)

CPS 1-1: Emerging Supply Shifts in World Agriculture Markets

Chairperson: Nicole Ballenger, USA

Prospects for China's Grain Security in the New Millennium: Liming Wang, U.K.; John Davis, USA

Declining Agricultural Productivity in Developing Countries: Lilyan E. Fulginiti, USA; Richard K. Perrin, USA

The Impact of Agricultural Productivity Increases in the Former Soviet Union and Eastern Europe on World Agricultural Markets: Silvia Weyerbrock, USA; Discussion Opener: Kelley White, USA

CPS 1-2: Price Stabilization Policies for Food Markets

Chairperson: Shoichi Ito, Japan

1. The Optimal Quantity of Official Rice Purchase in Taiwan Under Trade Liberalization
Rhung-Jieh Woo (Taiwan) and Yih-Bey Lin (Taiwan)

2. A Study of Optimal Rice Policy Changes in Taiwan
Chin-Cheng Chang (Taiwan) and Shih-Hsun Hsu (Taiwan)
 3. Storage-Trade Interactions Under Production Uncertainty: Implications for Food Security
Shiva S. Makki (World Bank) Luther G. Tweeten (USA) and Mario J. Miranda (USA)
- Discussion Opener: Stan Thompson, USA

CPS 1-3: Food Demand Analysis

Chairperson: Michio Kanai, Japan

Changing Food Demand under Transition in Slovenia: Emil Erjavec, Slovenia; George Mergos, Greece; Leonard Mizzi, Belgium; Jernej Turk, Slovenia

Will European Diets be Similar? A Cointegration Approach: A. Gracia, Spain; A.M. Angulo, Spain; Jose M. Gil, Spain

Analysis of Domestic Food Demand in Costa Rica: Hans G.P. Jansen, Costa Rica; Jorgen M. Geurts, Netherlands; Aad van Tilburg, Netherlands

Discussion Opener: Ben Senauer, USA

CPS 1-4: Targeting Food Assistance for the Poor

Chairperson: Sisay Asefa, Senegal

Determinants of Diversification of Urban Sahel Diets into Maize: A Contingent Valuation Study of Processed Maize Demand in Mali: Duncan Boughton, UK; Thomas Reardon, USA; Jeffrey Woodridge

Can Targeting Work in Food Security Programs? A Study of Consumer Behavior and the Fair Price Shop System for Food in India: Vasant P. Gandhi, India; Abraham Koshy, India

Estimating the Demand for Calories in India: P.J. Dawson, UK; Richard Tiffin, UK

Discussion Opener: Per Pinstrup-Andersen, IFPRI

CPS 1-5: Socio-Economic Issues at the Household Level

Chairperson: Patrick Webb, Germany

Intrahousehold Resource Allocation in Ghana: The Impact of the Distribution of Asset Ownership Within the Household: Cheryl R. Doss, USA

Welfare Impacts of Technological Change on Women in Mali: Nina Lilja, Cote d' Ivoire; John H. Sanders, USA
Some Socio-economic and Health Problems of Urinary Schistosomiasis in Benue State, Nigeria: J. Chinedu Umeh, Nigeria; O. Amali, Nigeria; E.U. Umeh, Nigeria

Discussion Opener: Agnes Quimsumung, IFPRI

15:30–16:00 Break

16:00–17:30 Contributed Paper Session 2 (5 Concurrent)

CPS 2-1: Public Policy and Agricultural Growth in Developing Countries

Chairperson: Kirit S. Parikh, India

External Adjustment, Production Subsidies and Agricultural Growth in Brazil: Joaquim Bento de Souza Ferreira Filho, Brazil

Assessing Impact of Government Policies on Rural Development: An Explorative Study for Bangladesh: Abdul Bayes, Bangladesh; Mahabub Hossain, Bangladesh

Planning, Investments and Exports in Malaysia's Economic Development: Thamir Saleh, USA; Dale Colyer, USA

Discussion Opener: Michel Griffon, France

CPS 2-2: Policy Issues in Transition Economies

Chairperson: Natalija Kazlauskienė, Lithuania

Official and Effective Liberalization in the Former Soviet Union: The Example of Ukrainian Agriculture: Stephan von Cramon-Taubadel, Germany; Ulrich Koester, Germany

Consolidation of the Russian Budget: A General Equilibrium Analysis: Peter Wehrheim, Germany; Manfred Wiebelt, Germany

Economic Assessments of the Social Costs of Food Security of the Economies in Transition: The Case of Bulgaria and Romania: Nedka Ivanova, Bulgaria

Discussion Opener: Csaba Forgacs, Hungary

CPS 2-3: Agricultural Issues in Transition Economies

Chairperson: Sergey V. Kiselev, Russia

The Economics of Agricultural Decollectivization in Central and Eastern Europe: Erik Mathijs, Belgium; Johan F.M. Swinnen, Belgium

The Roads of Agricultural Decollectivization: The Case of Eastern Europe: Volker Beckmann, Germany; Konrad Hagedorn, Germany

Competitiveness of Agriculture and the Food Industry in Central and Eastern European Association Countries (CEAs): Monika Hartmann, Germany

Discussion Opener: Zhu Ling, China

CPS 2-4: New Directions in Agricultural Policy Analysis

Chairperson: Markus Hofreiter, Austria

Transfer Efficiency of Agricultural Policies: A Review: David S. Bullock, Jukka Kola, Finland; Klaus Salhofer, Vienna

Sunk Costs and Resource Mobility: Implications for Economic and Policy Analysis: Bradford L. Barham, USA; Jean-Paul Chavas, USA

Economic Development, Rurality and Minority Cultures: T.N. Jenkins, UK; G.O. Hughes, UK

Discussion Opener: Bruce Gardner, USA

CPS 2-5: Domestic and International Agricultural Pricing Issues

Chairperson: Lio da Rocha, Brazil

Lessons From the Coffee Market on Political Economy in Developing Countries: Mary Bohman, USA; Lovell Jarvis, USA

Does China Discriminate Prices Across Origin of Wheat Imports?: Kevin Z Chen, Canada; Jianguo Hui; Peter Chen, Canada

The Effects of Food Aid on Maize Prices in Mozambique: Cynthia Donovan, Senegal; Robert Myers, USA; David Tschirley, USA; Michael Weber, USA

Discussion Opener: David Harvey, UK

17:30–19:00 Discussion Groups/Minisymposia 1 (27 Concurrent)

18:30–20:00 IAAE Council Meeting

20:00–22:00 CWAE Reception

Tuesday, August 12, 1997

8:30–10:30: Plenary Session 2, Agricultural Diversification and New Technology

Chairperson: Alain de Janvry, University of California-Berkeley, USA

Rapporteur: Akinwumi A. Adesina, IITA, Cameroon

Diversification in Agricultural Trade

Alex McCalla, Alberto Valdis, World Bank

Discussion Opener: Hassan Sergini, University of Hassan II, Morocco

Rural Economy and Farm Income Diversification in Developing Countries

Chris Delgado, IFPRI, Ammar Siamwalla, Thailand Development Research Institute
 Discussion Opener: Michael Carter, Bradford Baham, University of Wisconsin, USA

Biotechnology: International Perspectives

David Zilberman, University of California-Berkeley, USA
 Discussion Opener: Rafael Posada, CIAT

10:30–11:00 Break

11:00–12:30 Poster/computer Presentation 2

Poster Session:

Demand Challenges Guidance: L. Unnevehr, University of Illinois; A. Burrell, Wageningen Agricultural University

Marketing (methodological): Guidance: M. Veeman, University of Alberta; M. Reed, University of Kentucky

Production Economics (methodological): Guidance: H. Guyomard, INRA-ERS, Rennes

Technological Development (agr. growth): Guidance: V. Sukhatme, MacAlister College, Minnesota; K. Olson, University of Minnesota

Resource Management (resources): Guidance: E-A. Nuppenau, University of Kiel; O. Bergland, Agricultural University of Norway

Economics of Policy and Institutional Change (Political Economy): Guidance: H. de Gorter, University of Cornell

Economics of Policy and Institutional Change (Privatization): Guidance: Z. Lerman, World Bank

Computer Session:

Agricultural Marketing

Agricultural Production

Resource Management

Guidance: G. Schiefer, University of Bonn

12:30–14:00 Lunch & View Posters at Leisure

14:00–15:30 Contributed Paper Session 3 (5 Concurrent)

CPS 3-1: Agricultural Marketing

Chairperson: Cornelis J. van der Meer, The Netherlands

Food Quality, Reputation, and Price: The Case of Wine: Silke Gabbert, Germany; Günter Schamel, Germany; Harald von Witzke, Germany

Trade, Labels and Consumer Information: The Case of Hormone Treated Beef: Jean-Christophe Bureau, France; Stephan Marette, France; Alessandra Schiavina, France

The Competitive Position of Farmers' Food Processing Cooperatives—The German Case: C.-Hennig Hanf, Germany

Discussion Opener: Roley Piggott, Australia

CPS 3-2: Spatial Issues in Food Marketing and Processing

Chairperson: Margherita Chang Ting Fa, Italy

Development of an Optimizing System With Fully-Connected Neural Networks for Marketing of Vegetables: Yasushi Sembokuya, Japan; Daisuke Takeshima, Yoshinori Fujii, Japan; Kozo Kasahara, Japan

Spatial Food Market Integration in Russia: Jens-Peter Loy, Germany; Peter Wehrheim, Germany

The Location of Foreign Direct Investments in the Food Industry: Empirical Evidence for Developed Countries: Margherita Scoppola, Italy

Discussion Opener: Johan van Zyl, South Africa

CPS 3-3: Off-Farm Employment

Chairperson: Consuelo Varela-Ortega, Spain

Off-Farm Work Participation of Dutch Arable Family Farms: Implication for the 1992 CAP: Tassew Woldehanna, Ethiopia; Alfons Oude Lansink, The Netherlands; Jack Peerlings, The Netherlands

Determinants of Time Spent in Non-Farm Employment by Farmers in Northern Ghana: Awudu Abdulai, IFPRI; Christopher L. Delgado, IFPRI

Rural Financial Institution Building and Gender Sensitive Demand Analysis in a Food Insecure Environment: The Case of Cameroon: Gertrud Schrieder, Germany

Discussion Opener: Tom Reardon, USA

CPS 3-4: Rural Credit

Chairperson: Franz Heidhues, Germany

The Effects of the Interest Rates for Lending and Borrowing on Subsistence Households: Mark Schreiner, USA; Douglas H. Graham, USA; Mario Miranda, USA

The Impact of Credit Constraints on Smallholder Dairy Farms in Ethiopia and Kenya: H. Ade Freeman, Ethiopia; Simeon K. Ehui, ILRI; Mohammad A. Jabbar, Ethiopia

Factors Affecting Rural Medium-Term Loan Repayment: Evidence from a South African Development Finance Institution: M.E. Kuhn, South Africa; M.A.G. Darroch, South Africa

Discussion Opener: Geetha Negarajan, India

CPS 3-5: Farm Size, Efficiency, and Employment

Chairperson: Francis Idachaba, Nigeria

Farm Size, Productivity and Returns to Scale in Agriculture Revisited: A Case Study of Wine Producers in South Africa: Robert Townsend, Johann Kirsten, Nick Vink, South Africa

Size Efficiency of Sugarcane Farms in KwaZulu-Natal: S. Mbowa, South Africa; W.L. Nieuwoudt, South Africa

Small Scale Deciduous Fruit Farms for Historically Disadvantaged South Africans: Prospects, Issues and Implications: Michael J. De Klerk, South Africa

Discussion Opener: Ken Thomson, UK

15:30–16:00 Break

16:00–17:30 Contributed Paper Session 4 (5 Concurrent)

CPS 4-1: Trade and the Environment

Chairperson: Gordon Rausser, USA

Have Structural Adjustment Programs Compromised Efforts to Sustainably Intensify African Agricultural Production: Empirical Evidence from Senegal: Valerie Kelly, USA; Thomas Reardon, USA; Bocar Diagana, Senegal; Matar Gaye, Senegal; Maniivel Sene, Senegal

Growth, Trade, Pollution and Natural-Resource Use in Chile: Evidence From an Economy wide Model: Dominique van der Mensbrugghe, France; David Roland-Holst, USA; Sebastien Dessus, France; John Beghin, Belgium

Environmental Regulation and Trade: Exploring the Time Dimension: Ki-Ju Han, Korea; John B. Braden, Korea

Discussion Opener: Don MacLaren, Australia

CPS 4-2: Land Tenure and Security

Chairperson: Peter Rieder, Switzerland

Rights to Land and Farmer Investment Incentives in China: Guo Li, USA; Scott Rozelle, USA; Loren Brandt, USA
Tenure Security and Productivity in Small Scale Agriculture in Zimbabwe: Implications for South Africa: G.M. Moore, South Africa; W.L. Nieuwoudt, South Africa

A Game Theoretical Model of Land Contract Choice: Americo M.S. Carvalho Mendes, Portugal

Discussion Opener: Klaus Deininger, World Bank

CPS 4-3: Induced Innovation and Nature Resource Management*Chairperson:* Hans Binswanger, World Bank*Population Pressure, Technological Change and Agricultural Growth in Sub Saharan Africa: The Farming Systems Evolution Approach, Evidence and Issues:* Kizito Langha, Cameroon*Population Growth, Agricultural Intensification, Induced Innovation and Natural Resource Sustainability: An Application of Neoclassical Growth Theory:* John L. Pender, IFPRI*Induced Innovation in Natural Resource Management: Example From a Community Case Study in the Honduras Hillside:* Sara J. Scherr, IFPRI; Gilles Bergeron, IFPRI; John Pender, IFPRI; Bruno Barbier, IFPRI*Discussion Opener:* Simeon Ehui, ILRI**CPS 4-4: Agricultural and Greenhouse Gas Emissions***Chairperson:* Rafael Posada, CIAT*Food Security and Environmental Sustainability – An Economic Evaluation of CO₂ Mitigation Strategies:* R.P.S. Malik, India*Farming Systems Models on the Reduction of Greenhouse Gas Emissions in Crop and Dairy Farms:* Jürgen Zeddies, Germany; Konrad Lothe, Germany*Economics of Tropical Forest Land Use and Global Warming:* Paula Horne, Finland*Discussion Opener:* Pierre Crosson, USA**PS 4-5: Trees and Agriculture***Chairperson:* Scott Rozell, USA*Agricultural Development With Rainforest Conservation: Methods for Seeking Best Bet Alternatives to Slash-and-Burn, With Applications to Brazil and Indonesia:* Thomas P. Tomich, ICRA; Meine van Noordwijk, ICRA; Stephen Vosti, IFPRI; Julie Witcover, IFPRI*Policy and Competitiveness of Agroforestry-based Technologies for Maize Production in the Western Highland of Cameroon: An Application of Policy Analysis Matrix:* Akinwumi Adesina, IITA; Ousmane N. Coulibaly, IITA*Woodland Clearing and Forest Policy: The Ethiopian Case:* Tassew Woldehanna, Ethiopia; Erwin Bulte, The Netherlands; Wim Heijman, The Netherlands*Discussion Opener:* Steve Franzel, ICRAF

17:30–19:00 Discussion Groups / Mini-symposia 2 (27 Concurrent)

20:00 Ad Hoc Meetings & Reunions

Wednesday, August 13, 1997

08:30–10:00 Contributed Paper Session 5 (5 Concurrent)

CPS 5-1: Water Management Policies*Chairperson:* Mona Nour El Din, Syria*Water Conveyance, Spatial Technology Choice and Rents:* Ujjayant Chakravorty, USA; Chieko Umetsu, USA*Water Pricing Policies, Public Decision Making and Farmers Response: Implications for Water Policy:* Consuelo Varela-Ortega, Spain; Jose M. Sumpsi, Spain; Alberto Garrido, Spain; Maria Blanco, Spain; Eva Iglesias, Spain*Discussion Opener:* Mark Rosegrant, IFPRI**CPS 5-2: Determinants of Adoption of Soil Conservation***Chairperson:* Boubakar T. Thabet, Tunisia*A Microeconomic Analysis of Adoption of Soil Conservation in the Philippine Uplands:* Ma. Lucila A. Lapar, IRRI; Sushil Pandey, IRRI

Determinants of Farmers' Indigenous Soil and Water Conservation Investments in Semi-Arid India: John L. Pender, IFPRI; John M. Kerr, IFPRI

Poverty, Market Imperfections, and Time Preferences: Of Relevance for Environmental Policy?: Stein T Holden, Norway; Bekele Shiferaw, Norway; Mette Wik, Norway

Discussion Opener: Peter Matlon, UNDP

CPS 5-3: Household and Community Models of Soil Management Decisions

Chairperson: Antsnio Cipiriano Pinheiro, Portugal

Induced Innovation and Land Degradation: Results From a Bioeconomic Model of a Village in West Africa: Bruno Barbier, IFPRI

Technology, Market Policies and Institutional Reform for Sustainable Land Use: Arie Kuyenhoven, The Netherlands; Ruerd Ruben, The Netherlands; Gideon Kruseman, The Netherlands

Agricultural Policy Reform and Smallholder Soil Fertility Management: Steven Were Omamo, The Netherlands; Gerdien Meijerink, The Netherlands

Discussion Opener: Ruud Huirne, The Netherlands

CPS 5-4: Pest Management

Chairperson: Jürgen Zeddies, Germany

Economic and Environmental Implications of Pesticide Use on Vegetable Production: Latha Nagarajan, India; Shiva S. Makki, The World Bank; M.S. Swaminathan, India

Pesticide Productivity, Host-Plant Resistance and China's Battle Against Insects and Diseases: David Widawsky, IRRI; Scott Rozelle, USA; Songqing Jin, Jikun Huang, China

Discussion Opener: Mahabub Hossain, IRRI

CPS 5-5: Rangeland Management in the Sahel

Chairperson: Kwadwo Asenso-Okyere, Ghana

Economic Analysis of Mixed-Species Grazing and Implications for Sustainable Livestock Production in Semi-Arid West Africa: Timothy O. Williams, ILRI; Salvador Fernandez-Rivera, ILRI; Pierre Hiernaux, ILRI

Pasture Taxes and Agricultural Intensification in Southern Mali: Timothy J. Dalton, Cote d'Ivoire

Discussion Opener: Jock Anderson, The World Bank

10:00–10:30 Break

10:30–12:30 Special Plenary Session US/California Agriculture

Organizer & Chairperson: **Daniel A. Sumner**, Director, Agricultural Issues Center, University of California and **Frank H. Buck**, Jr. Professor, Department of Agricultural and Resource Economics, University of California-Davis, USA

The US Agricultural Economy: Susan Offutt, Administrator, Economic Research Service, US Department of Agriculture, USA

A Welcome from California Agriculture: Ann Veneman, Secretary, California Department of Food and Agriculture, USA

A Historical Perspective on California Agriculture: Alan Olmstead, Department of Economics, University of California-Davis, USA

A Geographic Survey of California Agriculture: Warren Johnston, Professor Emeritus, Department of Agricultural and Resource Economics, University of California-Davis, USA

Marketing of Fruits and Vegetable Crops in California: Roberta Cook, Cooperative Extension Specialist, Department of Agricultural and Resource Economics, University of California-Davis, USA

Resource and Environmental Issues in California Agriculture: David Sunding, Cooperative Extension Specialist, Department of Agricultural and Resource Economics, University of California-Berkeley, USA

Government Policy and California Agriculture: Daniel A. Sumner, University of California, USA

12:30–13:00 Break

13:00 Load Buses for Tour (With Box Lunch on Bus)

17:00–19:00 Barbecue

Thursday, August 14, 1997

8:30–10:30 Plenary Session 3

“Resource Management in Agriculture: Water and Land, Biodiversity, Agriculture and Climate”

Chairperson: Clem Tisdell, University of Queensland, Australia

Rapporteur: R.P.S Malik, University of Delhi, India

Water and Land Resources and Global Food Supply: Mark Rosegrant, IFPRI; Roberta Gerpacio; Philippines; Claudia Ringler, IFPRI; Discussion Opener: Anthony H. Chisholm, La Trobe University, Australia

Impacts of Global Warming on Agriculture: Darwin Hall, California State University, USA

Discussion Opener: Prabhu L. Pingali, IRRI *The Management of Genetic Resources for Agriculture: Ecology and Information Externalities and Policies*: Tim Swanson, Cambridge University, UK: *Discussion Opener*: P.S. Ramakrishnan, Jawaharlal Nehru University, India

10:30–11:00 Break

11:00–12:30 Poster/Computer Presentation 3

Food Security (Macro): Guidance: A. Kuyvenhoven, Wageningen Agricultural University; D. Colman, Manchester University/W. Masters, University of Purdue

Business and Trade: Guidance: J. Peerlings, Wageningen Agricultural University

Production Economics (General, Sustainability and Farm Management): Guidance: Q. Paris, University of California-Davies

Technological Development (Institutional; Sustainability): Guidance: H. Jansen, REPOSA; H.P. Witzke, University of Bonn

Economics of Policy and Institutional Change (International Trade): Guidance: G. Meester, Ministry of Agriculture and University of Amsterdam; S. Neff, USDA-ERS

Economics of Policy and Institutional Change (Non-Market Issues): Guidance: H. von Witzke, Humboldt University; B. Mills, ISNAR

Resource Management (Other): Guidance: M. Lyne, University of Natal; W. Heijman, Wageningen Agricultural University

12:30–14:00 Lunch & Visit to Posters at Leisure

14:00–15:30 Panel Session 2 (5 Concurrent)

Panel 6: Economic Issues of Biotechnology in Agriculture (Outlook and Institutional Implications)

Organizer and Chairperson: David Zilberman, University of California-Berkeley, USA

Rapporteur: Scott Rozell, Stanford University, USA

The Economics of Biotechnology: Global Perspective: Carl Pray, Rutgers University, USA

Economics of Biotechnology: National Perspective: Michelle Marra, North Carolina State University, USA

Biotechnology: Industry Perspective: Sano Shimoda, BioScience Security, USA

Agricultural Biotechnology: Status and Prospects: Susanne Huttner, University of California-Berkeley, USA

Panel 7: The Future of Public Agricultural Organizations at Global, National and Local Level*Organizer and Chairperson:* Hartwig de Haen, FAO*Rapporteur:* Francis Idachaba, ISNAR*International Agricultural Organizations, Mandates, Performance and Effectiveness:* A.Z.M. Obaidullah Khan, FAO, Asia and the Pacific*National Dimension- The Role of Agricultural Organizations in Designing, Implementing, Monitoring and Evaluating Policies:* W. Schopen, Ministry of Agriculture, Germany*Agricultural Organizations, Comparative Assessment of Mandates, Functions and Performance:* Daniel Bromley, University of Wisconsin, USA*Role of Non-Governmental Organizations and Institutions for Agriculture and Rural Development:* Anil Gupta, Indian Institute of Management, India*Empirical Evidence on the Role of NGOs in Latin America and the Caribbean:* M. Chiriboga, ALOP, Costa Rica**Panel 8: World Food Futures: Methodological Basis and Implications of Long-Term Food Outlooks***Organizer and Chairperson:* David Colman, Manchester, UK*Rapporteur:* T. Satyanarayana, Indian Society of Agricultural Marketing, India*Key System Requirements for Projecting Food Futures. Deficiencies to be Addressed:* Nikos Alexandratos, FAO Modeling Critique; *Economist's Faith in the Ability of Market Forces to bring about an Optimistic Food Security Future versus Biophysical Scientist's Pessimism:* Mark Rosegrant, IFPRI*Comparison of Medium and Long-term Projections of Food Futures:* William Myers, Center for Agricultural and Rural Development, Iowa State University, USA*A Biophysical Perspective on Medium and Long-term Food Futures:* Prabhu Pingali, CIMMYT*The Implications of Alternative Sustainable Food Futures:* Frits Penning de Vries, Wageningen Agricultural University, The Netherlands**Panel 9: New Approaches to Demand Analysis: Quality, Invisibles, Dynamics in Tastes and Preferences***Organizer and Chairperson:* Ben Senauer, University of Minnesota, USA*Rapporteur:* Vasant Gandhi, Indian Institute of Management, India*Structural Change in Demand:* Kyree Rickertsen, Agricultural University of Norway*Nonparametric and Semi-Parametric Analysis:* Jim Chalfant, University of California-Davis, USA*Tastes and Quality Characteristics in Demand:* Roland Herrmann, University of Giessen, Germany*Nutrition/Health Information and Demand:* Michio Kanai, National Research Institute of Agricultural Economics, Japan**Panel 10: Labor in Agriculture – Diversification of the Rural Economy, Rural Non-farm Employment, Urbanization and Migration Challenges***Organizer and Chairperson:* Alberto Valdis, The World Bank*Rapporteur:* Tassew Woldehanna, Mekelle University College, Ethiopia*Off-farm Employment and Rural Poverty – Issues and Policies:* Peter Lanjouw, The World Bank*Labor Market and Rural Poverty – Issues and Policies:* Ramon Lopez, University of Maryland, USA*Labor Absorption in the Rural Economy – The Case of Transition Economies:* Ulrich Koester, University of Kiel, Germany*Rural Employment: An International Perspective:* John Bryden, University of Aberdeen, UK

15:30–16:00 Break

16:00–17:00 Panel Session 2 (Continued)

17:30–19:00 Discussion Groups/Minisymposia 3 (27 Concurrent)

20:00 Ad Hoc Meetings and Reunions

Friday, August 15, 1997

08:30–10:00 Plenary Session 4

“Economics of Policy and Institutional Change”

Chairperson: Michel Petit, the World Bank*Rapporteur:* Nedka Ivanova, Ministry of Agriculture, Bulgaria*Institutional and Organizational Forces Shaping the Agricultural Transformation Process: Experiences, Causes, and Implications:* P. Michael Schmitz, Cornelia Noeth, University Giessen, Germany*Discussion Opener:* Ewa Rabinowicz, University of Uppsala, Sweden*Policy and Institutional Change for Agriculture in China: Production, Consumption and Trade Implications:* Ke Bingsheng, China Agricultural University*Discussion Opener:* Mahabub Hossain, IRRI*Regionalism in World Food Markets: Implications for Trade and Welfare:* Thomas Hertel, William Masters, Purdue University, USA, Mark Gehlhar, ERS/USDA, USA: *Discussion Opener:* Alexander Sarris, University of Athens, Greece

10:30–11:00 Break

11:00–12:30 Contributed Paper Session 6 (5 Concurrent)

CPS 6-1: Agricultural Effects of the North American Free Trade Agreement*Chairperson:* Mauro De Rezende Lopes, Brazil*NAFTA in a Changing Policy Environment:* Mary E. Burfisher, USA; Daniel Plunkett, USA; Sherman Robinson, IFPRI; Karen Thierfelder, USA*Impact of the Uruguay Round Agreement and NAFTA on the Mexican Economy:* Erly Cardoso Teixeira, Brazil*Agricultural Effects of a North American Customs Union: a Game Theoretic Analysis:* P. Lynn Kennedy and Karol W. Hughes*Discussion Opener:* Ruben Echeverria, IDB**CPS 6-2: Agricultural Trade Issues***Chairperson:* Stefan Tangermann, Germany*The Impacts of Regional Integration and Unilateral Reforms: the World Rice Market and Expanded Mercosur Trade:* James M. Hansen, Ralph Bierlen, Eric J. Wailes and Gail L. Cramer*Cap Response to the 1996 US Fair Act: A WTO Negotiation Perspective:* Jean-Christophe Bureau, France; Alexandre Gohin, France; Herve Guyomard, France; Chantal Le Mouel, France*Explaining Stocks and Export Subsidies in Agriculture:* Jesus Antsn*Discussion Opener:* John Slater, UK**CPS 6-3: Trade Discrimination***Chairperson:* John McInerey, UK*The Trade Restrictiveness Index: the Potential Contribution to Agricultural Policy Analysis:* Luca Salvatici, Italy; Colin A. Carter, USA; Daniel A. Sumner, USA*A First Step in Understanding Technical Barriers to Agricultural Trade:* Suzanne Thornsbury, USA; Donna Roberts, USA; Kate Deremer, USA; David Orden, USA*Are Income Distribution Effects the Dominant Explanation of Trade Protection in Rich Versus Poor Countries? The Case of Mobile Factors:* Colin A. Carter, USA; Andrew J. Estrin, USA*Discussion Opener:* Antonio Brandao, Brazil

CPS 6-4: Impact of Trade Reform on Rural Households*Chairperson:* Manfred Wiebelt, Germany*Income Effects of Alternative Trade Policy Adjustments on Philippine Rural Households: A General Equilibrium Analysis:* Romeo M. Bautista, IFPRI; Marcelle Thomas, IFPRI*Post GATT Agricultural Trade Liberalization and Growth in Developing Countries: the Case of the Philippines:* Alexander H. Sarris, Greece*Evaluation of the Impact of Trade Liberalization on Food Crop Production and Farm Income in Java Lowland, Indonesia:* F. Gerard, Indonesia; Erwidodo, Indonesia; I. Marty, France*Discussion Opener:* Hans Lofgren, IFPRI**CPS 6-5: Applications of Cointegration Methods in Agricultural Economics***Chairperson:* Stefan von Cramon-Taubadel, Germany*Cointegration and Causality in International Agricultural Economics Research:* Hector O. Zapata, USA; J.M. Gil, Spain*Wheat and Barley Market Integration in the EU:* Jose M. Gil, Spain; A. Angulo, Spain; Hector O. Zapata, USA*Testing the Induced Innovation Hypothesis: an Error Correction Model of South African Agriculture:* Colin Thirtle, South Africa; Robert Townsend, South Africa*Discussion Opener:* Awudu Abdulai, Switzerland

12:30–14:00 Lunch & Ad Hoc Meetings & Reunions

14:00–15:30 Contributed Paper Session 7 (4 Concurrent)

CPS 7-1: Determinants of Agricultural Exports*Chairperson:* Hassan Sergini, Morocco, Egypt*An Econometric Analysis of US Broiler Exports:* Crispin Mutshipayi Kapombe and Dale Coly, USA*A Bayesian Analysis of Trade in Processed Food Products: an Application to France:* Nadine Herrard, France; Yves Le Roux, France; Yves Surry, France*US-Mexico Fresh Vegetable Trade: Policy Intervention and Technological Change:* Jaime E. Malaga, USA; Gary W. Williams, USA; Stephen W. Fuller, USA*Discussion Opener:* Ralph Lattimore, New Zealand**CPS 7-2: Agricultural Research Policy***Chairperson:* Prabhu Pingali, CIMMYT*Organizational Models for Management of Research and Extension: the Case of New Zealand:* R.W.M. Johnson, New Zealand*The Rise and Fall of Public Sector Plant Breeding in the United Kingdom: a Recursive Model of Basic and Applied Research and Diffusion:* Colin Thirtle, UK; P. Bottomley, UK; P. Palladino, UK; D. Schimmelpfennig, USA*An Empirical Study of the Determinants of Public Research Investment and Commodity Policies in Agriculture:* Johan F.M. Swinnen, Belgium; Harry De Gorter, Gordon C. Rausser*Discussion Opener:* Dina Deininger-Umali, The World Bank**CPS 7-3: Impact of Agricultural Research***Chairperson:* Charles Mataya, Malawi*The Contribution of Genetic Resources and Diversity: the Case of Wheat Productivity in the Punjab of Pakistan:* Jason Hartell, Belgium; Melinda Smale, CIMMYT; Paul Heisey, CIMMYT; Ben Senauer, USA*Agricultural Research Priority Setting under Multiple Objectives: an Example from Zimbabwe:* Gladys Mutangadura, USA; George W. Norton, USA

The Impact of Agricultural Research in Africa: Aggregate and Case Study Evidence: William A. Masters, USA; Touba Bedingar, Mali; James F. Oehmke, USA

Discussion Opener: Derek Byerlee, the World Bank

CPS 7-4: Policies for Promoting Technology Adoption among Smallholders

Chairperson: Guenther Dresruesse, Germany

Getting Technology and the Technology Environment Right: Lessons from Maize Development in Southern Africa: Julie A. Howard, USA; Lawrence Rubey, USA; Eric W. Crawford, USA

Market Access by Smallholder Farmers in Malawi: Implications for Technology Adoption, Agricultural Productivity and Crop Income: Manfred Zeller, IFPRI; Aliou Diagne, IFPRI; Charles Mataya, Malawi

Technology and Farm Performance: Paths of Productive Efficiencies over Time: Kali Kalirajan, Australia; Ric Shand, Australia

Discussion Opener: Truman Phillips, Canada

15:30–16:00 Break

16:00–18:30 Panel Session 3 (5 Concurrent)

Panel 11: The Transforming Economies (Former Socialist): Food Security, Diversification, and Resource Management

Organizer and Chairperson: Csaba Forgacs, Budapest University of Economic Sciences, Hungary

Rapporteur: Renata Ianbykh, Agrarian Institute, Moscow, Russia

Presenters: Csaba Csaki, World Bank

Eugenia Serova, Institute for Economy in Transition, Russia

Natalija Kazlauskiene, Ministry of Agriculture and Forestry, Lithuania

Jerzy Wilkin, University of Warsaw, Poland

Ulrich Koester, University of Kiel, Germany

Panel 12: Sub-Saharan Africa: Food Security, Diversification, and Resource Management

Organizer and Chairperson: Willis Oluoch-kosura, University of Nairobi, Kenya

Rapporteur: Igbekele A. Ajibefun, Federal University Technology, Nigeria

Sustainable Natural Resource Management in Agriculture, Food Availability and Poverty Alleviation in Sub-sahara Africa for the Rest of the Century and Beyond: Anthony Ikpi, University of Ibadan, Nigeria

The Contribution of Livestock to Food Security in Sub-sahara Africa: Policy and Technology Issues: Simeon Ehui, International Livestock Research Institute, Ethiopia

Informal Cross Border Trade in Eastern and Southern Africa: Implications for the Diversification of Regional and Formal Trade and Food Security: Chris Ackello-ogutu, Technoserve Inc., Kenya

Agenda for the Food, Agriculture and Natural Resource Sector in Southern Africa: Implications for Regional Food Security: Johan Van Rooyen, University of Pretoria, South Africa

Panel 13: South and East Asia: Food Security, Diversification, and Resource Management

Organizer and Chairperson: A. Vaidyanathan, Madras Institute of Development Studies, India

Rapporteur: Lucila Lapar, IRRI

Presenters: Zhu Ling, Chinese Academy of Social Sciences, China

K.S. Parikh, Indira Gandhi Institute of Development Research, India

S. Osmani, University of Northern Ireland

Panel 14: Middle East: Food Security, ecurit Security, Diversification, and Resource Management*Organizer and Chairperson:* Ahmed Goueli, Minister of Trade and Supply, Egypt*Rapporteur:* Claudia Ringler, IFPRI*Policies of Resource Pricing and its Influence on Resources Rationalization:* Ali Rahuma, Alfateh University, Lybia*Changes of Agricultural Policies in the Region and its Impact on Food Security:* Walid Abed Rabouh, Ministry of Agriculture, Jordan*Current and Expected Status of Food Security in the Middle East and North Africa:* Nour El Din Mona, Halab University, Syria*Changes in International Commercial Climate and its Impact on Food Security:* Muhamed Hamdy Salem, Ministry of Trade and Supply, Egypt*Developing Marketing Policies, Handling of Food Products and its Impact on Food Security:* Mohamed Raga Al Amer, College of Agriculture Assiut, Egypt*The Relationship Between Privatization and Efficiency in Resources Investment:* Sayed Hussain Ahmed, Egypt**Panel 15: Latin America: Food Security, Diversification, and Resource Management***Organizer and Chairperson:* Antonio Brandao, Fundacao Getulio Vargas, Brazil*Rapporteur:* Manuel Chiriboga, Alop, Costa Rica*Trade Liberalization and Agricultural Reforms in Brazil's Agriculture: Implications for Food Security and the Management of Natural Resources:* Mauro De Rezende Lopes, Center De Estudos Agrmcolas, Brazil*Food Security, Resource Management and the Adjustment Plan in Argentina: Some Comments:* Julio A. Penna, INTA, Argentina*Agricultural Development and Factor Markets: Some Notes about Peru and Ecuador:* Gabriel N. Montes-Llamas, Inter-American Development Bank*The Chilean Experience with Water Rights, Institutions, the Water Market, and the Efficiency in the Use of Water in Agriculture:* Eugenia Muchnik, Cepal, Chile

18:00–19:30 IAAE Council Meeting, Big Sur

19:30 Conference Dinner, Regency Ball Room

Saturday, August 16, 1997

8:30–10:00 Contributed Paper Session 8 (4 Concurrent)

CPS 8-1: Agricultural and Economic Growth*Chairperson:* Kohei Kobajashi, Japan*Agriculture and Economic Growth in a Market Economy: Analysis of the French Postwar Experience:* Xavier Irz, USA; Terry Roe, USA*The Asian Path of Agricultural Development: Patterns of Development of Structural Input-Output Relationships:* Cid L. Terosa, Philippines; Katshuhiko Demura, Japan; Akio Ito, Japan*The Place of Agriculture in the Development of Poland and Hungary: Lessons of a Computable General Equilibrium Model with Risk Considerations:* Jean-Marc Boussard, France; Ane Kathrine Christensen, Denmark*Discussion Opener:* Alexander Sarris, Greece**CPS 8-2: Agricultural Sector Modeling Methods***Chairperson:* Ralph Lattimore, New Zealand*The Mixed-Complementarity Approach to Specifying Agricultural Supply in Computable General Equilibrium Models:* Hans Lofgren, IFPRI; Sherman Robinson, IFPRI

MATA Africa: A Model to Study the Impacts of Agricultural Policies: D. Deybe and P. Castella
Reform of the Cap Reform: Empirical Evidence for the New Lander of Germany: D. Kirschke, Germany; H. Lotze, Germany; S. Noleppa, Germany; H. von Witzke, Germany
Discussion Opener: Jean M. Boussard, France

CPS 8-3: Management With Imperfect Information

Chairperson: C.-Henning Hanf, Germany

Imperfect Information in Contracts Between Farm Contractor and Farm: Interpretation by Extensive-Form Game: Fumio Osanami, Japan; Xiu Zhenjie, Japan; Takumi Kondo, Japan

Hazard and the Household Microenterprise: Evidence From Guyana, South America: Edward W. Bresnayan, USA
Putting Economics into Dairy Farm Management – A Scottish Experience: David D. Mainland, UK

Discussion Opener: Michael Murphy, UK

CPS 8-4: Estimation Methods

Chairperson: Gunter Fisher, The Netherlands

Amending Profit Function Models with Farm Structure Information: H. Peter Witzke, Germany

A Two-Constraint AIDS Model of Recreation Demand and the Value of Leisure Time: Douglas M. Larson, USA; Sabina L. Shaikh, USA; John B. Loomis, USA

Environmental Degradation and Mortality Increase. Estimation of the Value of a Statistical Life in Developing Economies: Brad J. Bowland, USA; John C. Beghin, USA

10:00–10:30 Break

10:30–12:00 Conference Synthesis: *Chairperson:* Douglas Hedley, President Elect, Canada

Statements of Panelists

Food Security and Demand Callenges: Ruvimbo Chimedza, University of Zimbabwe, Harare

Agricultural Diversification and New Technologies: Alain de Janvery, University of California-Berkeley USA

Resource Management in Agriculture: Clem Tisdell, University of Queensland, Australia

Economics of Policy and Institutional Change: Michel Petit, The World Bank

Conference Synthesis: Douglas Hedley, President Elect, IAAE

12:00 Adjourn & Departure

13:00 Post Conference Tours Departure

Minisymposia and Discussion Groups

Mini-Symposium 1. Water Quality and Markets

Organizers: Maureen R. Kilkenny, Iowa State University, Ames, Iowa, U.S.A. and Robert Innes, University of Arizona, Tucson, Arizona, U.S.A.

Presenters: Professor David Zilberman, UC Berkeley; Dr. Mateen Thobani, The World Bank, Pakistan); Leonardo Costa, U. Arizona, U.S.A. (Portugal); Professor Marca Weinberg, UC Davis, U.S.A.; Professor Jeffrey Connor, Oregon State, U.S.A.; Dr. JunJie Wu, Iowa State, U.S.A. (China); Professor Bonnie Colby, U. Arizona, U.S.A.; Professor William Easter, U. Minnesota/World Bank, U.S.A.; Professor Richard Howitt, UC Davis, U.S.A.; Dr. Terence Hurley, Iowa State, U.S.A.

Minisymposium 2. CANCELLED

Minisymposium 3. Agricultural Scientists, Agricultural Economists: Can They Cooperate?

Organizer: Jean-Marc Boussard, I.N.R.A.-E.N.G.R.E.F., Paris, France

Presenters: Guy Trebuil, CIRAD, Montpellier, France; John Dixon, FAO, Rome, Italy; Claire Cummings, The Mekong Foundation, San Francisco, California, U.S.A.; C. J. Botha, University of Pretoria, South Africa; Guillermo Flichman, Mediterranean Agronomic Institute, Montpellier, France; Allan Jones, Texas A&M University, College Station, Texas

Minisymposium 4. Is Agricultural Support Outmoded?

Organizer: Professor John S. Marsh, Director of the Centre for Agricultural Strategy, University of Reading, United Kingdom

Presenters: Professor Gordon MacAulay, Head, Department of Agricultural Economics, University of Sydney; Professor Bruce Gardener, Department of Agricultural and Resource Economics, University of Maryland; Professor Stefan Tangermann, Institute of Agricultural Economics, University of Göttingen; Professor Harry de Gorter, Department of Agricultural Economics, Cornell University, U.S.A.; Professor Tim Josling, Director, Centre for European Studies, Food Research Institute, Stanford University, U.S.A.; Professor Ralph Lattimore, Department of Economics and Marketing, Lincoln University, New Zealand

Minisymposium 5. Trade and Foreign Direct Investment in Food and Agriculture

Organizer: Steven A. Neff, USDA Economic Research Service, Washington, D.C.

Presenters: Maury Bredahl, University of Missouri, Columbia, Missouri, U.S.A.; Dennis Henderson, WesTrade International, Washington, D.C., U.S.A.; Tim Josling, Stanford University, Stanford, California, U.S.A.; Mary Marchant, University of Kentucky, Lexington, Kentucky, U.S.A.; Michael Reed, University of Kentucky, Lexington, Kentucky, U.S.A.

Minisymposium 6. Environmentally Beneficial Agriculture and Rural Revitalization: Perspectives from International Cooperative Studies

Organizers: Shigeki Yokoyama, National Research Institute of Agricultural Economics, Japan, and A. E. Luloff, The Pennsylvania State University, U.S.A.

Presenters: Parsons, Fales, and Muller, The Pennsylvania State University, U.S.A.; Al E. Luloff and Hanson, The Pennsylvania State University, U.S.A.; Shigeki Yokoyama, National Research Institute of Agricultural Economics, Japan; Hiroki Ukawa, Hokkaido National Agricultural Experiment Station, Japan; Yoshihiko Yoshino, Rakunogakuen University, Japan; Yasuo Ohe, Chugoku National Agricultural Experiment Station, Japan; Adriano Ciani and Stephan Coocco, University of Perugia, Italy; Antonio Boggia and Gaetano Martino, University of Perugia, Italy; F.M. Brouwer and Jaap

Post, LEI-DLO, The Netherlands; Yoichi Matsuki, Nippon Veterinary and Animal Science University, Japan; Yuji Oura and Kazunori Sato, National Agriculture Research Center, Japan; Kazunori Sato and Taichi Takahashi, National Agriculture Research Center, Japan

Minisymposium 7. Global Trends in Taste, Preferences, and Composition of Food Baskets

Organizer: Bhuban C. Barah, National Centre for Agricultural Economics and Policy Research, New Dehli, India
 Presenters: Phillips Lund and David Mainland, England; Kumar Radhakrishna, Bhuban C. Barah, Vasant Gandhi, Murty, Tim Kelley, Mujumdar, and Ninan, India; Claudia Roeder and R. Hermann, Germany; Michio Kanai and T. Tasebe, Japan; Kyrre Rickertsen, Norway; Jose Gil, A. Garcia, and Justo Manrique, Spain; Pranesh Kumar, and Dr. Tebisile, South Africa; H. Lee, Taiwan; Stanley Johnson, Ben Senaur, H. Jensen, Sean Fox, Dermont Heyes, and A.E. Obeid, U.S.A.

Minisymposium 8. Approaches to Understanding International Consumer Demand

Organizer: Dr. Dorothy Price, Washington State University, Pullman, Washington, U.S.A.
 Presenters: Kus S. Huang, and Sopen W. Huang, USDA, Washington, DC.; Richard Johnston, and Zhengkum Zhang, Oregon State University, U.S.A.; Glade Erikson, Thomas Wahl, and Raymond Jussaume, Washington State University, U.S.A.; Xiaobing Cao, University of the Pacific, U.S.A.; David W. Price and Dorothy Z. Price, Washington State University, U.S.A.

Minisymposium 9. Improving Food Security Through Household, School, and Community Gardening

Organizer: Dr. Robin Marsh, Rural Development Division, FAO, Rome
 Presenters: Angela Moskow, Small Farm Center, U.C. Davis, USA; Lucrecia Farfan, Director, U.C. Extension, Alameda County, USA; Gail Feenstra, Sustainable Agriculture Research and Education Program, U.C. Davis, USA; Elizabeth Tan, Director Youth Program, San Francisco League of Urban Gardeners, USA; Deborah Tamannaie, Nutrition Education, California Department of Education, USA; Robin Marsh, Rural Development Division, FAO, Rome

Minisymposium 10: Sessions on Sustainable Nutritional Security for Sub-Saharan Women Subsistence Farmers

Organizers: Professor Sylvia Lane, University of California, Berkeley, California, and Professor Elisabeth Sadoulet, University of California, Berkeley, California
 Presenters: Dr. Lawrence Haddad, IFPRI; Dr. Christine Gladwin, University of Florida; Dr. Anne Thomson, Stirling, Scotland; Dr. Agnes Quimbing, IFPRI; Dr. Eva Rathgeber, International Development Research Center; Dr. Tara Vishwanath, The World Bank; Dean Barbara Schneeman, University of California, Davis; Dr. Charlotte Neumann, University of California, Los Angeles; Dr. Roberta Van Haefton, Foreign Agricultural Service, USDA; Dr. Hilary Feldstein, The World Bank; Dr. Sarah Tisch, Winrock International; Ms. Barbara McNelly, Freedom from Hunger; Dr. Malcolm Blackie, Rockefeller Foundation; Dr. David Atwood, U.S. Agency for International Development; Dr. Kristy Cook, Agency for International Development

Minisymposium 11. What is the Potential for Sustainable Intensification in Fragile Lands? Empirical Evidence and Policy Implications

Organizers: Sara Scherr and John Pender, International Food Policy Research Institute, Washington, D.C.
 Presenters: John Kerr, IFPRI, Washington, D.C.; Heinrich Niederboster, Vogelsen, Germany; Stefano Pagiola, World Bank, Washington, D.C.; John Pender, IFPRI, Washington, D.C.; Thomas Reardon, Michigan State University, E. Lansing, Michigan; John Sanders, Purdue University, Purdue, Indiana; Sara J. Scherr, IFPRI, Washington, D.C.

Minisymposium 12. Spatial Economic Models of Land Use: Techniques for the Quantitative Assessment of Land Use Determinants and Environmental Consequences

Organizer: Gerald Nelson, Department of Agricultural and Consumer Economics, University of Illinois, Urbana, Illinois, U.S.A., and Kenneth Chomitz, World Bank, Washington, D.C., U.S.A.

Presenters: Klaus Deininger, World Bank, Washington, D.C., U.S.A.; Elena Irwin, Department of Agricultural and Resource Economics, University of Maryland, U.S.A.; Nlandu Mamingi, World Bank, Washington, D.C., U.S.A.; John Pender, International Food Policy Research Institute, Washington, D.C., U.S.A.; Tom Tomich, International Centre for Research in Agroforestry, Bogor, Indonesia

Minisymposium 13. Finance and Factor Market Development for the Rural Poor

Organizer: Richard L. Meyer, The Ohio State University, Columbus, Ohio, U.S.A.

Presenters: Hans Binswanger, The World Bank, Washington, D.C., U.S.A.; Michael C. Lyne and Mark A.G. Darroch, University of Natal, South Africa; Michael R. Carter and Bradford L. Barham, University of Wisconsin-Madison, U.S.A.; Gerhard Coetzee, The Development Bank of Southern Africa, South Africa; Paulo F.C. de Araujo, Universidade de Sao Paulo, Brazil; Jonathan Conning, Williams College, Williamstown, Massachusetts, U.S.A.; Claudio Gonzalez-Vega, The Ohio State University, Columbus, Ohio, U.S.A.; Gabriel A. Fuentes, Loyola Marymount University, Los Angeles, California, U.S.A.; Alberto Valdes, The World Bank, Washington, DC, U.S.A.; Julie Stanton, Arizona State University East, Mesa, Arizona, U.S.A.; Douglas Graham, The Ohio State University, Columbus, Ohio, U.S.A.

Minisymposium 14. Role of Rural Non-Farm Activities

Organizer: Harbinderjit Singh Dillon, MOA, Indonesia

Presenters: A. Balisacan; Professor R. Kada; Professor T. Onchan; Professor M. Tambunan; Professor G. Hart

Minisymposium 15. Rural Financial Institutions for/with the Poor: Relating Access and Impact to Policy Design

Organizer: Manfred Zeller, Germany, IFPRI, Washington, D.C., and Manohar Sharma, Nepal, IFPRI, Washington, D.C.

Presenters: Chris Delgado, IFPRI, Washington, D.C., U.S.A.; Marcel Pafchamps (Belgium), Stanford University, Stanford, U.S.A.; Franz Heidhues, and Gertrud Schrieder, University of Hohenheim, Stuttgart, Germany; Belle Dieudonne Sossoh (Cameroon), University of Hohenheim, Stuttgart, Germany; Monique Cohen, U.S. Agency for International Development, Washington, D.C., U.S.A.; Anjini Kochar (India), Stanford University, Stanford, U.S.A.; Aliou Diagne, (Senegal), IFPRI, Washington, D.C., U.S.A.; Mahabub Hossain (Bangladesh), International Rice Research Institute, Los Banos, Philippines; Reinhard Schmidt, University of Frankfurt, Germany; Carlos Cuevas (Chile) and Jacob Yaron (Israel) The World Bank, Washington, D.C., U.S.A.

Minisymposium 16. The Missing Link Between Agricultural Technology Adoption and Rural Poverty Alleviation

Organizer: Ganesh P. Rauniyar, Massey University, New Zealand

Presenters: Thomas Reardon, Associate Professor, Michigan State University; Jill Findeis, Associate Professor, The Pennsylvania State University; Ganegh Rauniyar, Lecturer, Massey University; T. Satyanarayana, Indian Society of Agricultural Marketing; Gunawan Sumodinigrat, BAPPENAS, Jakarta, Indonesia; Paul Heisey, CIMMYT, Mexico; Ganesh B. Thapa, Winrock International, Nepal

Minisymposium 17. Food Quality and Food Safety

Organizers: Julie Caswell, University of Massachusetts, Amherst, Massachusetts; Tanya Roberts, Economic Research Service, USDA, Washington, D.C.; and Laurian Unnevehr, Department of Agricultural and Consumer Economics, University of Illinois, Urbana, Illinois

Presenters: Donna Roberts, Economic Research Service, USDA; Takuji Sakurai, Shiga Prefecture Department of Agriculture, Forestry, and Fisheries, Japan; Erin Holleran, University of Missouri, U.S.A.; Jean-Christophe Bureau, INRA-Station d'Economie et Sociologie Rurales, France; Stephan Marette, INRA-Station d'Economie et Sociologie Rurales, France

Minisymposium 18. Agricultural Market Liberalization in Africa

Organizers: Raisuddin Ahmed, IFPRI, Washington, D.C.; and Steve Buccola, Oregon State University, Corvallis, Oregon

Presenters: Glenn Rogers, USAID, Cote d'Ivoire; Michael Kevane, University of Santa Clara, U.S.A.; Leslie Gray, University of Illinois, U.S.A.; Nango Dembele, Kimseyinga Savadogo, Universite de Ouagadougou; Francesco Goletti, IFPRI, Washington, D.C., U.S.A.; John Staatz, Michigan State University

Minisymposium 19. Regional Agricultural Trade and Comparative Advantage in Southern and Eastern Africa

Organizer: Dr. Ruvimbo Mabeza-Chimedza, University of Zimbabwe, Harare, Zimbabwe

Minisymposium 20. University Education in Agricultural Economics in Transition Countries

Organizer: Professor Klaus Froberg, Institute of Agricultural Development in Central and Eastern Europe, Germany

Minisymposium 21. Agricultural Transition in Central and East European Countries and the Former Soviet Union

Organizer: Dr. Sophia Davidova, Wye College, London University, United Kingdom

Chairperson: Dr. Lionel Hubbard, University of Newcastle, United Kingdom

Presenters: Dr. Eugenia Serova, Institute for Economies in Transition, Moscow, Russia; Ewa Rabinowicz, The Swedish University of Agricultural Sciences, Uppsala, Sweden; Stefan Bojnec, FAO Sub-regional Office for Central and Eastern Europe, Budapest, Hungary; Professor Secondo Tarditi, Siena University, Italy; Jason Hartell and Dr. Johan Swinnen, Leuven University, Belgium; Dr. Natalija Kazlauskienė, Vice-Minister, Ministry of Forestry, Lithuania; Velbona Cela, Agricultural University, Tirana/Colorado State University; Professor William H. Meyers, Iowa State University, USA; Erik Mathijs, Leuven University, Belgium

Discussion Group 22. Future Role of Development Assistance in Agriculture

Chairperson: Michel Griffon, URPA/CIRAD International Center of Agricultural Research for Development, Paris, France

Rapporteur: Gershon Feder, The World Bank, Washington, DC, USA

Presenters: Alex F. McCalla, The World Bank, Washington, DC, USA; Shiro Okabe, Food and Agricultural Policy Center, Japan; Gunter Dresrusse, GTZ, Germany; Bruno Vindel, Ministry of Cooperation, France; Shirley Prior, USAID, Washington

Discussion Group 23. Inter-Country Comparison of Input, Output, and Productivity Levels and Growth Rates to Primary Agriculture-Measurement and Inferences on Competitiveness

Chairpersons: Dr. Shankar Narayanan, Agriculture and Agri-Food Canada, Ottawa, Canada, and Dr. Eldon Ball, U.S. Department of Agriculture, ERS, Washington, D.C.

Discussion Group 24. Environmental Externalities and Regulations and Environmental Impact Valuation
CANCELLED

Discussion Group 25. Political Economy Analysis in Agricultural Economics: Concepts and Experiences Among Countries

Chairperson: Professor Robert G. F. Spitze, University of Illinois, Urbana, Illinois, U.S.A.

Consultants: Professor Puskas Janos, Godollo University of Agricultural Science, Godollo, Hungary; and Professor Peter Warr, Australian National University, Canberra, Australia

Minisymposium 26. Quality and Environmental Management for Competitive Advantage in Agriculture and Food

Organizer: Professor Dr. Gerhard Schiefer, University of Bonn, Bonn, Germany Presenters: Maury Bredahi, University of Missouri, U.S.A.; Carlos A. da Silva, University of Vicosa, Brazil; Ruud Huirne, Wageningen Agricultural University, The Netherlands; Krijn Poppe, LEI-DLO, The Netherlands; Ralf Helbig, University of Bonn, Germany; Andrew Starbird, Santa Clara University, U.S.A.

Discussion Group 27. The New Role of a Multi-functional Agriculture: Consequence for Agricultural Policy

Chairperson: Dr. Hans W. Popp, Liebefeld-Bern, Switzerland

Discussion Group 28. Farm and Rural Tourism

Chairperson: Dr. Gamini Herath, La Trobe University, Australia

Discussion Group 29. Absolute Poverty–Vulnerability for Natural Disasters–Concepts of Prevention and Reduction

Chairpersons: Dr. Theodor Dams, University Freiburg, Federal Republic of Germany; and Professor Yan and Rui-Zhen, People's University of China, Beijing, China