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## XXIV International Conference of Agricultural Economists

August 13–18, 2000  
Haus am Köllnischen Park  
Berlin, Germany

### Tomorrow's Agriculture: Incentives, Institutions, Infrastructure and Innovations

#### Organising Committees

- **Program Committee:**

- Overall Program Co-ordination (Chair): Prabhu L. Pingali
- Contributed Paper Organisation: David Colman
- Posters Papers and Computer Demonstrations: Monika Hartman
- Discussion Groups/Minisymposia Organisation: Herbert H. Stoevener
- German Agriculture Session: Stefan Tangermann
- Pre-Conference Learning Workshops: Gerald C. Nelson and Daniel A. Sumner

- **German Organising Committee (Chair):** Ulrich Koester

- **Local Organising Committee (Chair):** Harald von Witzke

**A Statement from Prabhu L. Pingali**  
*Chair, Program Committee*

### **IAAE's Purpose**

The IAAE is the worldwide association of agricultural economists and other social scientists concerned with agricultural economic issues, organised to:

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

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

### **Tomorrow's Agriculture: Incentives, Institutions, Infrastructure and Innovations**

The theme of our conference will allow us to create a program that is of wide interest to all participants. It will enable us to focus on the economic, political and institutional aspects of global agriculture. The plenary sessions will be as follows.

#### **1. Globalisation of the Food and Agricultural Economy**

- Globalisation of proprietary technology: new partnerships, problems, and potential
- WTO and the re-alignment of global agricultural production and trade
- Agricultural trade barriers, trade negotiations, and the interests of developing countries
- Globalisation of agriculture: perspectives from a globally operating company

#### **2. Improved Market Incentives in Transition Economies**

- Growth, productivity and efficiency: an assessment of 20 years of China's agricultural reform
- Reform policies of initial conditions: what caused different performances of agrarian reforms in transition countries
- Emerging agri-food markets: Russian experience
- Towards improved market incentives in South Asia

#### **3. Agricultural Research, Technology Development and Institutions**

- Agricultural research, technology and world food markets
- Human capital, education and agriculture
- Reassessing research returns: attribution and other problems
- The role of institutions in agricultural policy delivery

#### **4. Making Agriculture Environmentally Safe**

- Precision agriculture: global prospects and environmental implications
- Crop genetic diversity in modern agriculture: what it is, where it is and how to maintain it
- Population pressure, land tenure and natural resource management.
- The political economy of biotechnology and genetic engineering for the agriculture of developing countries

### **IAAE Research and Policy Issues Addressed in the XXIV International Conference**

The XXIV IAAE Conference will address many important research and policy issues challenging world agriculture well into the next century. Some of the topics covered will be as follows.

- Rapid urbanisation in developing countries and its affects on food production and delivery systems.
- Global Food Demand, the transformation of diets and the sources of future food supplies.
- Public–private sector roles in agricultural research; new ways of executing and financing research.
- Transformations of farm sectors in transition economies and improving market incentives for agriculture.
- Rural infrastructure: investment, delivery and finance.
- Plant varietal protection and access to and conservation of genetic diversity.
- Property rights and collective action for sustainable management of land and forest resources.
- Globalisation and the need for new institutional arrangements at the local, national and international levels.
- Technologies and policies for making agriculture environmentally safer and more sustainable.

### Thanks to Colleagues and Donors

A number of countries and organisations 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 the following.

- Federal Ministry of Food, Agriculture and Forestry, Bonn, Germany
- Humboldt University of Berlin, Germany
- Gesellschaft für Technische Zusammenarbeit mbH (GTZ), Eschborn, Germany
- International Maize and Wheat Improvement Centre (CIMMYT), Mexico
- Japanese Branch, IAAE
- Landwirtschaftliche Rentenbank, Frankfurt am Main, Germany
- Ministère des Affaires Étrangères, Paris, France
- Ministerium für Landwirtschaft, Umweltschutz und Raumordnung, Potsdam, Germany
- Rockefeller Foundation, USA, Anonymous
- Aventis Crop-Science, Frankfurt am Main, Germany and Lyon, France
- Deutsche Landwirtschaftsgesellschaft mbH (DLG), Frankfurt am Main, Germany
- International Food Policy Research Institute (IFPRI), Washington, USA
- Industrieverband Agrar, Frankfurt am Main, Germany
- R&V Allgemeine Versicherung, Wiesbaden, Germany
- Schultheiss-Brauerei, Berlin, Germany
- The US Agency for International Development (USAID), USA
- Verein der Zuckerindustrie, Bonn, Germany
- AGRA-Europe, Bonn, Germany
- Allgemeiner Deutscher Automobilclub (ADAC), Berlin, Germany
- BLV Verlagsgesellschaft mbH, Munich, Germany
- CABI Publishing, Wallingford, UK
- Gesellschaft für Agrarprojekte, Hamburg, Germany
- Gesellschaft für Wirtschafts- und Sozialwissenschaften des Landbaus (GEWISOLA), Bonn, Germany
- NOMOS Verlagsges. mbH, Baden-Baden, Germany
- “Partner für Berlin”, Berlin, Germany
- Statistisches Bundesamt, Wiesbaden, Germany
- Verlag Eugen Ulmer, Stuttgart, Germany
- Zentrale Markt- und Preisberichtsstelle, Berlin, Germany

### Overview of Conference Structure

The International community of agricultural economists shaped the conference content through plenary Sessions, Invited Panel Discussions, Contributed Paper Sessions, Poster and Computer Sessions and Discussion Groups/Minisymposia.

### **Plenary Sessions**

There were five plenary sessions with three to four presentations each. One of the plenary sessions was dedicated to the Best Contributed Paper Competition.

### **Invited Panel Discussions**

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

### **Contributed Papers Sessions**

These were papers addressing any agricultural economic themes. On four conference days, there were five contributed papers time slots, with seven concurrent sessions each. There were three to four papers in each session. The contributed Papers sessions was organised by David Colman and was refereed by an international panel of subject matter experts using blind review process. About 120 contributed papers were selected at the conference.

### **Poster and Computer Sessions**

These sessions were scheduled in prime time to create a marketplace for exchange of ideas and research findings. Computer-based presentations and relevant software supplemented the poster presentations. The Poster and Computer sessions were organised by Monika Hartman.

### **Discussion Groups/Minisymposia**

The highly stimulating Discussion Groups and Minisymposia facilitated professional exchange, as well as friendship among members. The discussion Group/Minisymposia sessions were organised by Herbert Stoevener.

### **One Day Pre-Conference Learning Workshops**

These workshops on Spatial Data and Analysis and the Economic Analysis of Food Security Policy were organised by Gerald Nelson and Daniel Summer. A special session on German Agriculture with five speakers was organised and chaired by Stefan Tangermann.

### **Procedure for Selecting Blue Book and Special Issue Manuscripts**

Our decision on the publication of the contributed papers from the 24th International Conference was guided by the following process.

1. Screening by the Contributed Papers Selection Committee headed by David Colman. A total of 419 papers were submitted and sent for double blind review out of which 123 papers were selected for presentation at the IAAE Conference in Berlin, and 42 of these were selected by six reviewers at a special 2-day meeting as worthy of consideration for the “best contributed paper competition”. These 42 also went forward for further review by a panel of *Agricultural Economics*’ reviewers to be considered for publication.
2. The 42 papers considered for the “best contributed paper competition” were blind reviewed by a panel chaired by Jock Anderson, and three papers were selected for the final competition and plenary presentation at the conference. All three of these papers were automatically selected for publication in the Special Conference Issue of *Agricultural Economics*.
3. All the remaining 39 papers, plus others highlighted as publishable by chairs of contributed paper sessions, were subjected to a blind review co-ordinated by David Colman together with the Editorial Board of *Agricultural Economics*.

4. Written comments were also collected from the discussants of the contributed papers at the IAAE Conference in Berlin.
5. Following the 24th International Conference in Berlin, David Colman, George Peters, Stanley Johnson and Stephan von Cramon-Taubadel selected a final set of 22 papers for publication in this Special Conference Issue of *Agricultural Economics*, which is guest edited by David Colman. Twenty papers were chose for publication in the Conference Blue Book, edited by George Peters.

## Conference Program

### Saturday, 12 August 2000

8:30–18:00 Learning Workshop on Spatial Data Analysis Organiser and Chairperson:  
Gerald C. Nelson, University of Illinois, Urbana–Champaign, USA.

The audience for this workshop is agricultural economists and others who have limited experience with economic analysis using spatial data and spatial analysis techniques. The goal is to provide an overview of analytical techniques, selected applications, and hands-on experience with real-world data sets. Leading researchers in three areas of spatial analysis — the rural–urban interface, land use and deforestation in developing economies, and precision agriculture — will present conceptual models and empirical applications. Econometric issues that are unique to spatial analysis will be reviewed. Finally, three breakout sessions with hands-on experience will be offered in the afternoon. Participants will have the opportunity to participate in two of these sessions.

8:30–8:40	Introduction
8:40–9:15	The Role of Location in Economic Activities (Kenneth Chomitz)
9:15–10:00	Spatial Econometrics (Raymond Florax)
10:00–10:20	Coffee Break
10:20–11:00	Modelling the Rural–Urban Interface; Data-Rich Environments (Kathleen Bell)
11:00–11:40	Deforestation and Land Use Change; Sparse Data Environments (Gerald Nelson)
11:40–12:20	Assessing the Value of Precision Agriculture Data (David Bullock, Jess Lowenburg-de Boer, Scott Swinton)
12:20–12:45	Poster Session — Examples of Analyses (summarised results available on posters/reports, etc.)
12:45–1:45	Lunch
13:45–18:00	Hands-on Learning

Three parallel hands-on sessions of 2 h each — each offered twice.

1. Modelling Deforestation and Land Use Change; Sparse Data Environments
2. Modelling the Rural–Urban Interface; Data-Rich Environments
3. Assessing the Value of Precision Agriculture Data

9:30–16:00 Learning Workshop on Economic Analysis of Food Security Policy Haus am Köllnischen Park

This workshop develops economic concepts and tools used in the analysis of aspects of food security policy. We anticipate that workshop participants will include economists in government, academics and members of other organisations who want to build their expertise in analysing, planning and implementing agricultural policies. We will take a broad approach to the subject of food security and include analysis of subjects from long-term global productivity policy to agricultural commodity policy. Obviously, we cannot deal with all aspects of food security policy, but we hope to discuss approaches to a number of policy issues in the context of food security.

The workshop will begin with definitions and background facts. Professor D. Gale Johnson will provide an introductory discussion on this topic. We will also develop the idea that many policies, especially in developing countries, can be considered under the rubric of, “food security”.

We then turn to long-term global and national productivity policy. This section of the workshop will deal with research priority setting and evaluation of agricultural science policy options and outcomes. The contribution of agricultural science to food security is the overriding theme of this section. We plan to include such topics as intellectual property and biotechnology as appropriate. This section is organised and led by Julian Alston, University of California, Davis.

Next, we briefly review income distribution issues and food assistance. The focus in this section is how to help secure food for the poor by transfer policies. International food aid policy is one part of this. The emphasis is on policy development and evaluation, with examples used to help the participants see how to conduct analysis of policy options.

Food security and macroeconomic stabilisation policy is developed next. This section considers the importance of macroeconomic issues and the limits of other programs and policies, given macroeconomic shocks. Exchange rate fluctuation, inflation, unemployment, government budget constraints and related topics will be covered. Examples from Indonesia and other countries will be featured. This section is organised and led by Richard Barichello, University of British Columbia.

Finally, we will consider the role of agricultural commodity and trade policy in food security. We will analyse and evaluate trade restrictions as food security policy. This session will also be used to summarise the overall lessons from the workshop. Daniel Sumner, the workshop co-ordinator, will lead this section. Organiser and Chairperson: Daniel A. Sumner, University of California at Berkeley, USA.

### **Sunday, 13 August 2000**

11:00–12:30 Distinguished Panel Globalisation and Biotechnology: Risks and Opportunities for Farmers and Consumers

*Chairperson:* Per Pinstrup-Anderson (Sweden)

*Speakers:* Justin Yifu Lin (Peking University, China)

Susan Offutt (USDA/ERS, USA)

Wilfred Mwangi (Deputy Permanent Secretary and Director, Agriculture and Livestock Production, Government of Kenya)

Eugenia Muchnik de Rubinstein (Fundacion Chile, Chile)

Matin Qaim (Centre for Development Research, Germany)

13:30–15:30 Welcoming Addresses

*Chairperson:* Robert L. Thompson (Past President, IAAE)

*Speakers:* Harald von Witzke (Chair, Local Organising Committee)

Karl-Heinz Funke (Minister of Food, Agriculture and Forestry, Germany)

Eberhard Diepgen (Governor of Berlin)

Christoph Stölzl (Senator for Science, Research and Culture, Senate of Berlin)

Jürgen Mlynek (President, Humboldt University of Berlin)

Presidential Address

*Speaker:* Douglas D. Hedley (President, IAAE)

*Elmhirst Lecture:* The Transformation of Agriculture and the World Economy: Challenges for the Governance of Agriculture and for the Profession

*Chairperson:* Douglas D. Hedley (President, IAAE)

*Speaker:* James Bonnen (Michigan State University, USA)

16:00–17:30 Invited Panel Session I (five concurrent sessions)

#### **Panel 1: Gender Perspectives on Land Rights, Intrahousehold Allocations and Productivity**

*Chairperson:* B. Agarwal (India)

*Speakers:* Carmen Diana Deere (UMASS, Amherst, Brazil)

Zhu Ling (Chinese Academy of Social Sciences, Beijing)

#### **Panel 2: Political Economy of Agricultural Reforms in Central and Eastern Europe**

*Chairperson:* Klaus Froberg (Germany)

*Speakers:* Csaba Csaki (Budapest, Hungary and The World Bank)

Ewa Rabinowicz (Sweden)



Eugenia Serova (Russia)  
 Johan Swinnen (Belgium)  
 Stefan Tangermann (Germany)

**Panel 3: Livestock Revolution in Developing Countries**

*Chairperson:* S. Ehui (Ivory Coast)  
*Speakers:* Thomas W. Hertel (Purdue University, USA)  
 Henning Steinfeld (FAO, Italy)  
 Chris Delgado (IFPRI)  
 Charlotte Neumann (University of California at Los Angeles, USA)

**Panel 4: Sub-Sahara Africa: Same old Challenges for Sub-Sahara Africa in the New Millennium: Widespread Poverty, Environmental Degradation and Shrinking Opportunities in a Globalised Market**

*Chairperson:* Christopher Ackello-Ogutu (Kenya)  
*Speakers:* Akinwumi Adesina (Rockefeller Foundation, Zimbabwe)  
 Tony Ikpi (Department of Agricultural Economics, University of Ibadan, Nigeria)  
 Brian d'Silva (USAID, REDSO/ESA, Nairobi)  
 Isaac Minde (Program Co-ordinator, ECAPAPA, Entebbe, Uganda)  
 Ruvimbo Chimedza (University of Zimbabwe)

**Panel 5: Agroindustrialisation, Globalisation, and International Development**

*Chairperson:* T. Reardon (USA) and C. Barrett (USA)  
*Speakers:* Ed Barbier (University of York)  
 Elizabeth Farina (Universidade do Sao Paulo, MERCOSUR, Brazil)  
 Kandeh Yumkella (UNIDO)

19:00 Opening Reception

**Monday, 14 August 2000**

8:30–10:30 Plenary Session I: Globalisation of the Food and Agricultural Economy  
*Chairperson:* H. de Haen (Germany)  
*Discussant:* Mandy Rukuni (Zimbabwe)  
 Globalisation of Proprietary Technology: New Partnerships, Problems, and Potential;  
 Walter Falcon, USA  
 WTO and the Re-alignment of Global Agricultural Production and Trade; Kym Anderson,  
 Australia  
 The Political Economy of Biotechnology and Genetic Engineering for Agriculture of  
 Developing Countries; Klaus Leisinger, Switzerland  
*Globalisation of Agriculture:* Perspectives from a Globally Operating Company; Gerhard Prante,  
 Germany

11:00–12:30 Poster and Computer Session I

*Poster Session I*

Food Demand and Consumer Attitude:

*Chairperson:* Awudu Abdulai  
*Discussant:* Michelle Veeman

**Agribusiness and FDI:***Chairperson:* Steve McCorriston*Discussant:* Fernando Brito Soares**Agricultural Trade in LDCs:***Chairperson:* Christoph Weiss*Discussant:* Kenneth J. Thomson**Developments in CEECs:***Chairperson:* Mieczyslaw Adamowicz*Discussant:* Jozsef Toth**Rural Poverty and Development in LDCs:***Chairperson:* Steffen Abele*Discussant:* Eric Tollens**Modelling of Environmental Problems:***Chairperson:* Krijn Poppe*Discussant:* Gerald Nelson**Gender and Agriculture in LDCs:***Chairperson:* Gertrud Schrieder*Discussant:* Ernst-August Nuppenau**Institutions and Agriculture:***Chairperson:* Klaus Frohberg*Discussant:* Karen Macours**Education and Research:***Chairperson:* Paul Diederer*Discussant:* Siegfried Bauer**Technological Development in LDCs:***Chairperson:* Nikolaus Gotsch*Discussant:* Hans van Meijl**Agricultural Policies in the European Union:***Chairperson:* Jukka T. Kola*Discussant:* Alan Matthews**Selected Issues:***Chairperson:* Shohei Kawakatsu*Discussant:* Nadia Cuffaro**Farm Modelling in EU Countries:***Chairperson:* Hyunok Lee*Discussant:* David Schimmelpfennig**Computer Session I***Chairperson:* Martin BanseIs the CAP Promoting Viable Technical Change? The Case of Olive Oil in Andalusia (Spain);  
Felisa Ceña, Dioniso Ortiz and Fernando Andrada

Measurement of Technological Change in the European Union: Susan Leetmaa; Carlos Arnade and David Kelch

The Experience of the Czech Republic with the Implementation of its WTO Commitments in Agriculture and the Assessment Policy Option for the Pre-Accession Period; Tomás Rättinger and Jirina Slaisová

13:30–15:30 Contributed Papers I

**CPS 1-1: Estimating Frontier Production Functions: Efficiency, Productivity and Cost**

*Chairperson:* Klaus Frohberg

Parametric Decomposition of Agricultural Output Growth: A Stochastic Input Distance Function Approach; G. Karagiannis (Greece), P. Midmore (UK) and V. Tzouvelekas (Greece)

A Cross Sectional Maximum Entropy Estimation of Cost Functions for Regional Programming Models; Thomas Heckeles and Wolfgang Britz (Germany)

Technical Efficiency of Wheat Producers in Asisa District of South-Eastern Ethiopia; Mohammed Has-sena, Wilfred Mwangi and Farah Hassen (Ethiopia)

Alternative Methods for Environmentally Sensitive Productivity Analysis; Terrence Veeman and Atakelty Hailu (Canada)

**CPS 1-2: The Economics of Food Quality**

*Chairperson:* Juan Leos-Rodriguez

The Economics of Eco-Labeling; Arnab K. Basu, Nancy H. Chau and Ulrike Grote (Germany)

The Impact of Food Scars on Price Adjustment in the UK Beef Market; Tim Lloyd, C.W. Morgan, S. McCriston and T. Rayner (UK)

The Effect of Incorporating Nutrients on Meat Demand Analysis Using Household Budget Data; A.M. Angulo and J.M. Gil (Spain)

*Label Power:* New Wine in Old Bottles? Bodo Steiner (Germany)

**CPS 1-3: Spatial Economics**

*Chairperson:* Ulrich Koester

Agent-based Spatial Models Applied to Agriculture, A Simulation Tool for Land Use Changes, Natural Resource Management and Policy Analysis; Thomas Berger (Germany)

Spatial Price Transmission and Asymmetric Adjustment in the Ghanaian Maize Market; Awudu Abdulai (Switzerland)

*Spatial Aspects of Producer Milk Price Formation in Kenya:* A Joint Household–GIS Approach; S.J. Staal, Christopher Delgado, I. Baltenweck (France) and R. Kruska (USA)

**CPS 1-4: Public and Private Sector Roles in Research and Development**

*Chairperson:* Douglas Gollin

*Private R&D Investment in Agriculture:* The Role of Incentives and Institutions; Oscar Alfranca (Spain) and Wallace E. Huffman (USA)

Private Sector as an Emerging Institution For Accelerating Growth in Bangladesh Agriculture; M.A. Sattar Mandal (Bangladesh)

Intellectual Property Rights and the NAROs in Developing Countries; David Bigman and Gerdien Meijerink (The Netherlands)

Policies for Private Agricultural Research in Asian LDCs; Carl Pray and Keith Fuglie (USA)

**CPS 1-5: The CAP**

*Chairperson:* Ewa Rabinowicz

*The Agenda 2000 CAP Reform in the WTO Context:* Distortion Effects of Compensatory Payments; Alexandre Gohin and Herve Guyomard (France)

Short-Run and Long-Run Elasticities for ASEAN Agricultural Exports to the EU: An Error Correction Mechanism Approach; Jyrki Niemi (Finland)

The Economic Cost of the CAP Re-visited; G. Philippidis and Lionel Hubbard (UK)

A Game Theoretic Analysis of Turkish Integration into the European Union; P. Lynn Kennedy (USA) and Cemal Atici (Turkey)

#### **CPS 1-6: Chinese Land Policy — Household Modelling**

*Chairperson:* Nick Vink

*Labour Supply, Hired Labour and Off-Farm Income in the Tigray Region, Ethiopia:* Implications for an Employment Policy and Farm/Non-Farm Income Linkages; Tassew Woldehanna (The Netherlands)

*Agricultural Commercialisation, Women Time Allocation and Children's Health and Nutritional Status in Rural Nepal:* An Application of a Household Production Model; Khem R. Sharma (USA)

An Overview of Recent Land Reform Initiatives in China; John Davis, L. Wang (UK) and Fu Chen (China)

Village Land Policy and Intersectoral Labour Movements in China; Bryan Lohmar (USA)

#### **CPS 1-7: Poverty Alleviation in India and Africa**

*Chairperson:* Timothy Olalekan Williams

Housing Quality and Housing Development in Rural Ghana; Jack Houston (USA)

On the Targeting and Cost-Effectiveness of Anti-Poverty Programmes in Rural India; Raghav Gaiha and P.D. Kaushik (India) and Katsushi Imai (UK)

Factors Affecting Food Self-Sufficiency among Farm Households in Southern Ethiopia; Stein Holden (Norway)

*Economic Liberalisation and Rural Poverty Alleviation:* The Indian Experience; K.N. Ninan (India)

16:00–17:30 Discussion Groups (DG) and Minisymposia (MS) I

17:30–19:00 Contributed Papers II

#### **CPS 2-1: Agrochemicals and the Environment**

*Chairperson:* Konrad Hagedorn

*Nitrogen Efficiency of Dutch Dairy Farms:* A Shadow Cost System Approach; Stijn Reinhard and Geert Thijssen (The Netherlands)

An Economic Evaluation of the Environmental Benefits from Pesticide Reduction; Alfons Weersink and Cher Brethour (Canada)

Endogenous Technology Switches in Dutch Dairy Farming When Environmental and Agricultural Policies are Restrictive; Marinus Komen and Jack H.M. Peerlings (The Netherlands)

#### **CPS 2-2: EU Enlargement and the CAP**

*Chairperson:* Csaba Csaki

*The CAP's Impacts on Agriculture and Food Demand in Central European Countries after EU Accession:* Who will Lose, Who will Gain? Gerald Weber (Germany)

Slovenian Agricultural Policy Options in View of Future Accession to the EU; Emil Erjavec, S. Kavcic (Slovenia) and G. Mergos, C. Stoforos (Greece)

Eastern Enlargement of the European Union: A General and Partial Equilibrium Analysis; Martin Banse, Wolfgang Münch and Stefan Tangermann (Germany)

#### **CPS 2-3: Market Linkages**

*Chairperson:* Thomas Hertel

*Cash Transfer Programs with Income Multipliers:* PROCAMPO in Mexico; Benjamin Davis (USA), Elisabeth Sadoulet and Alain de Janvry (France)

Marketing Strategies under different Policy Scenarios; Klaus Drescher and Claus-Hennig Hanf (Germany)

Can Rural Areas Benefit from the Changing Skills of Labour Used in US Food Processing Trade? Gerald Schlüter and Chinkook Lee (USA)

**CPS 2-4: Impacts of Biotechnology***Chairperson:* Mahabub Hossain*Biotechnology in Agriculture:* Implications for Farm-Level Risk Management; Shiva Makki, Agapi Somwaru and Joy Harwood (USA)A Prospective Evaluation of Biotechnology in Semi-Subsistence Agriculture; Matin Qaim (Germany)  
Market Structure and Innovation Intensity in Agricultural Biotechnology; David E. Schimmelpfennig, Carl E. Pray and Margaret Brennan (USA)**CPS 2-5: Trade Barrier Issues***Chairperson:* Roland Herrmann*Effects of European Union Tariffs on the South African Fresh Orange Industry:* A Trade Simulation; Stephan Hubertus Gay (Germany) and W. Lieb Nieuwoudt (South Africa)

Turkish Vegetable Oil Import Demand Following Tariff Liberalisation; Ali Koc, Safak Aksoy, Ahmet Bayaner, Turker Dolekolu, Ayut Sener (Turkey) and Frank Fuller (USA)

*Impacts of Regional Trade Agreements:* The Case of USA. Textile and Apparel; William Amponsah and Xiang Dong Qin (USA)**CPS 2-6: Agricultural Productivity and Efficiency***Chairperson:* Brian Revell

Resource Quality and Agricultural Productivity in Sub-Saharan Africa: A Multi-Country Comparison; Keith Wiebe, Meredith Soule, Clare Narrod and Vince Breneman (USA)

Agricultural Productivity Growth in Asian Countries; Kecuk Suhariyanto (Indonesia)

Pesticides and the Environment — Do Farmers Know? A Study of their Awareness and Behaviour in India; Vasant Gandhi and N.T. Patel (India)

**CPS 2-7: Adjusting Farm Structure in Transitional Economies***Chairperson:* Stefan Bojnec

Employment and Efficiency of Farms in Transition: An Empirical Analysis for Brandenburg; Alfons Balmann, Britta Czasch and Martin Odening (Germany)

Income Uncertainty and Subsidiary Farming; Lyubov A. Kurkalova and Helen H. Jensen (USA)

*Restructuring Large-Scale Farms and the Exit Problem:* Markus Brem (Germany) and Douglas W. Allen (Canada)

Stochastic Frontier Models of Farm Level Efficiency During the Early Transition in Hungary; Jenifer Piesse and Xavier Irz (UK)

**Tuesday, 15 August 2000**

8:30–10:30 Plenary Session II: Improved Market Incentives in Transition Economies

*Chairperson:* Justin Lin (China)*Discussant:* D. Kirschke (Germany)*Growth, Productivity, and Efficiency:* An Assessment of 20 Years of China's Agricultural Reform; Jikun Huang, China and Scott Rozelle (USA)*Reform Policies of Initial Conditions:* What Caused Different Performances of Agrarian Reforms in Transition Countries? Johan Swinnen (Belgium)*Emerging Agri-Food Markets:* Russian Experience; Eugenia Serova (Russia)

Towards Improved Market Incentives in South Asia; Ashok Gulati (India)

11:00–00:30 Poster and Computer Session II

*Poster Session II*

Food Demand and Security in LDCs:

*Chairperson:* Stephan Brosig*Discussant:* José M. Gil

**Agricultural Growth:***Chairperson:* Benoit Daviron*Discussant:* Heinrich Hockmann**Agricultural World Markets:***Chairperson:* Ian M. Sheldon*Discussant:* Jens-Peter Loy**The Russian Agro-Food Sector:***Chairperson:* Wojciech J. Florkowski*Discussant:* Mieczyslaw Adamowicz**Part Time Farming and Rural Development:***Chairperson:* Siegfried Bauer*Discussant:* Erik Mathijs**Animal Welfare and Land Conservation:***Chairperson:* Panu Kallio*Discussant:* Konrad Hagedorn**Sustainable Development in LDCs:***Chairperson:* Heinz Ahrens*Discussant:* Claudia Ringler**Institutional Change in LDCs:***Chairperson:* Csaba Csàki*Discussant:* Helen H. Jensen**Agricultural Policy Analysis in LDCs:***Chairperson:* Karen Macours*Discussant:* Wolfgang Britz**Water Protection in OECD Countries:***Chairperson:* Nadia Cuffaro*Discussant:* Jack Houston**Competitiveness and Agricultural Protection in CEECs:***Chairperson:* Matthias Schneider*Discussant:* Vasant Sukhatme**Risk in Agriculture:***Chairperson:* Shenggen Fan*Discussant:* Hyuong Lee**Farm Modelling in LDCs:***Chairperson:* Stelios D. Katranidis*Discussant:* Sryn Reinhard**Computer Session II***Chairperson:* Krijn Poppe

Computer Program to Evaluate Competitive Advantage in Agricultural Economics; Ricardo C. Lima and Sinezio F. Maia

*TRANS-FARM:* A Farm Model to Assess Development Strategies and Predict Effects of

Policy Changes for Agricultural Enterprises especially in Central and Eastern European Countries; Volker Mothes, Ludger Hinnens-Tobraegel and Peter Tillack  
*Exploring the Dynamics of Future Global Protein Consumption*: Donna Fisher; Steve Sonka and Randall Westgren

13:30–15:30 Contributed Papers III

**CPS 3-1: Measuring Productivity and Efficiency on Farms**

*Chairperson*: Adam Ozanne

*Technical Efficiency in Developing Country Agriculture: A Meta-Analysis Study*; Boris Bravo-Ureta; Abdourahmane Thiam and Teodoro E. Rivas (USA)

*Technical Efficiency and Policy Options in Small-Scale Food Crop Production in Nigeria: An Application of the Stochastic Frontier Production Function*; Igbekele Ajibefun (Nigeria)

*Total Factor Productivity Measurement in Bangladesh Crop Agriculture Using Stochastic Frontier Approach, 1960/1961–1991/1992*; Sanzidur Rahman (Bangladesh) and Tim Coelli (Australia)

*Efficiency and Technical Change in the Philippine Rice Sector: A Malmquist Total Factor Productivity Analysis*; Chieko Umetsu (Japan), Thamana Lekprichakul and Ujjayant Chakravorty (USA)

**CPS 3-2: Theory: Trade and Institutional Change**

*Chairperson*: Daniel Sumner

*South Korean Wheat and Flour Market Comparisons: A Stated Preference Analysis*; Renee Kim, Michele Veeman and J. Unterschultz (Canada)

*Institutional Structure and Policy Formation: The Case of Norwegian Agriculture*, Klaus Mittenzwei (Norway)

*Rent Seeking with Politically Contestable Rights to Agricultural Import Quotas*; Harry De Gorter and Jana Hranaiova (USA)

*The Contribution of the Theories of Institutional Change to the Explanation of Property Rights Reform Process in Agriculture in a Transition Economy*; Achim Schlüter (Germany)

**CPS 3-3: Land Use in European Countries**

*Chairperson*: Ken Thomson

*The Magic Growth Barrier For Swiss Farms*; Priska T. Baur (Switzerland)

*Land Allocation under Arable Area Payment Schemes: A Farm Level Study*; Pavel Vavra and David Colman (UK)

*The Environmental Effectiveness of Alternative Agri-Environmental Policy Reforms with Least Distortions on Trade: Theoretical and Empirical Analysis*; Jussi Lankoski and Markku Ollikainen (Finland)

*Land Use in the European Union by 2020*; Antonio Nucifora (Italy)

**CPS 3-4: Demand Analysis**

*Chairperson*: Kyrre Rickertsen

*A New Look at the Fundamental Laws of Consumer Economics: A Case Study for Eastern Russia*; H.L. Goodwin, Rodney Holcomb and Rimma Shiptsova (USA)

*Consumption Demand for Market Goods and Environmental Quality: Experience from Taiwan during 1977–1996*; Pei-Ing Wu (Taiwan)

*A Fresh Meat Almost Ideal Demand System Incorporating TV Coverage and Advertising Impact*; Wim Verbeke and Jacques Viaene (Belgium) and Ronald W. Ward (USA)

*A New Framework to Estimate and Identify Co-integrated Demand Systems: An Application to Tunisian Meat Consumption*; Jose M. Gil, M. Ben Kaabia and B. Dhehibi (Spain)

**CPS 3-5: Managing Volatility and Uncertainty**

*Chairperson*: Ismail Shariff

Can Markets Support Trade? The Case of Sugar; Jean-Marc Boussard and Marie-Gabrielle Piketty (France)

Optimal Hedging Decisions for Taiwanese Corn Traders on the Way of Liberalisation; Li-Fen Lei, Jerome Geaun and Kang Liu (Taiwan)

*Effects of External Shocks on Small Farmers: A Village General Equilibrium Approach Applied to Mexico*; Antonio Yunez-Naude (Mexico) and J. Edward Taylor (USA)

Challenges and Constraints for Co-operative Conflict Management among Land Use Stakeholders; Uwe Jens Nagel and Andrea Knierim (Germany)

### **CPS 3-6: Food Security**

*Chairperson:* Alberto Valdes

*Safety Net Policy in a Global Context: Low Income Food Importing Countries*; Michael A. Trueblood and Shahla Shapouri (USA)

*Balancing Government Intervention and Private Competition in Foodgrain Systems: A Magic Bullet for India's Food Security?* Dina Umali-Deininger (USA) and Klaus Deininger (Germany)

*Food Self-Sufficiency, Comparative Advantage, and Agricultural Trade: A Policy Analysis Matrix for Chinese Agriculture*; John Beghin and Cheng Fang (USA)

*Averting a Food Crisis: Private Imports and Public Targeted Distribution in Bangladesh after the 1998 Flood*; Paul Dorosh and Carlo del Ninno (USA)

### **CPS 3-7: Markets for Water**

*Chairperson:* Consuelo de Varela Ortega

*Incentives for Tradable Water Rights: Two Case Studies in South Africa*; W.L. Nieuwoudt, R.M. Armitage and G.R. Backeberg (South Africa)

*Willingness to Pay for Water in the Sahara: A Proposed Prediction Method*; Peter Calkins, Marc Vezina and Bruno Larue (Canada)

*Local Water Markets for Irrigation in Southern Spain: A Multi-Criteria Approach*; Manuel Arriaza and Jose A. Gomez-Limon (Spain)

*Tank Irrigation Management as a Local Common Property: The Case of Tamil Nadu, India*; Takeshi Sakurai (Cote d'Ivoire) and K. Palansami (India)

16:00–17:30 Invited Panel Session II (four concurrent sessions)

### **Panel 6: Economic Impacts of Agricultural Research and Technology Development**

*Chairperson:* B. Evenson (USA)

*Speakers:* Mahabub Hossain, Victor Manyong, Michael Morris and Uttam Deb, "Patterns of Varietal Production and Release: Tom Walker, Paul Heisey, Cynthia Bantilan, Timothy Dalton, Anwar Aw-Hassan, "Modern Variety Adoption and Diffusion: Comparative Experiences" Flavio Avila, Scott Rozelle, Jikun Huang, Douglas Gollin "Assessing Economic Impacts: A Discussion of Methodologies, Consistency Checks and Aggregate Data"

### **Panel 7: Transformation of the Farm Sector in Transition Economies: A Review of the First Decade**

*Chairperson:* G. Feder (Israel)

*Speakers:* Tomas Doucha Director (Research Institute of Agricultural Economics Prague, Czech Republic), Klaus Frohberg Director (IAMO, Martin Luther University, Halle, Germany), Zvi Lerman (Faculty of Agriculture Hebrew University, Israel) and Johan Swinnen (Agricultural Advisor, DG2, European Union and Professor of Agricultural Economics, University of Leuven, Belgium)

### **Panel 8: South Asia: Innovative Approaches to Poverty Alleviation in Asia**

*Chairperson:* G. Thapa (Nepal)



*Speakers:* Raghav Gaiha (University of Delhi, India), K. Imai (Oxford University, UK), Jikun Huang (China), K. Otsuka (Tokyo Metropolitan University, Japan) and Rushidan Rahman (BIDS, Bangladesh)

**Panel 9: Trade, WTO and Food Security**

*Chairperson:* S. Tangerman (Germany)

*Speakers:* Ashok Gulati (Institute of Economic Growth, University of Delhi, New Delhi, India), Masayoshi Honma (Economics Department, Seikei University, Tokyo, Japan), Dan Sumner (Department of Agricultural Economics, University of California, Davis, USA) and Alberto Valdes (The World Bank, Washington, DC, USA)

17:30–19:00 Discussion Groups and Minisymposia II — continued from Monday

**Wednesday, 16 August 2000**

8:30–11:00 German Agriculture Session

*Organiser and Chairperson:* Stefan Tangermann, University of Göttingen, Germany  
Evolution and Perspectives of German Agricultural Policy; Martin Wille (Secretary of State, Federal Ministry of Food, Agriculture and Forestry)

Transformation of Agriculture in East Germany; Bernhard Forstner and Folkhard Isermeyer (Institute of Farm Economics and Rural Studies, Federal Agricultural Research Centre (FAL), Braunschweig)

Institutional Characteristics of German Agriculture; Werner Großkopf (Institute of Agricultural Policy and Market Research, University of Hohenheim-Stuttgart)

The Role of Germany in the Common Agricultural Policy; Ulrich Koester (Institute of Agricultural Economics, University of Kiel)

The Value-Added Chain in the German Food Sector; Hannes Weindlmaier (Dairy and Food Research Centre Weihenstephan, Technical University of Munich)

1:00–12:00 Discussion Groups and Minisymposia III — continued from Tuesday

12:30–22:00 Mid-Week-Tours and Barbecue

**Thursday, 17 August 2000**

8:30–10:30 Plenary Session III: Agricultural Research, Technology Development and Institutions

*Chairperson:* B. Njobe (South Africa)

*Discussant:* Ruben Echeverria (Argentina), Agricultural Research, Technology, and World Food Markets; Mark Rosegrant (USA)

*Human Capital for Agriculture:* Prospects and Potential; Wallace Huffman (USA), Reassessing Research Returns: Attribution and Other Problems, Julian Alston (Australia)

The Role of Institutions in Policy Formation and Delivery; Robin Johnson (New Zealand)

11:00–12:30 Plenary Session IV (Best Contributed Paper Competition)

13:30–15:30 Invited Panel Session III (five concurrent sessions)

**Panel 10: Agricultural Research and Technology Development Policy**

*Chairperson:* D. Byerlee (Australia)

*Speakers:* Helio Tollini (Brazil); Michael Morris (USA) and Benchapun Shinawatra (Thailand), Jaako Kangasniemi (Finland) and Ruben Echeverria (Uruguay)

**Panel 11: Southeast Asia: Managing after the Crisis**

*Chairperson:* Dillon (Indonesia)

**Panel 12: Agricultural Economics Curricula: Directions and Strategies for Change**

*Chairperson:* J. Nichols (USA).

*Speakers:* John P. Nichols and Kerry K. Litzenberg (Texas A&M University, USA), Vasant Gandhi (Centre for Management in Agriculture, Indian Institute of Management, India), Johan van Zyl, Johan van Rooyen, Johan Kirsten, Tobias Doyer (University of Pretoria, South Africa) and Ernst Berg (University of Bonn, Germany)

**Panel 13: AIDS & Development**

*Chairperson:* M. Bail (USA)

**Panel 14: Latin American Agriculture in the 1990s after Policy Reforms**

*Chairperson:* C. Jaramillo (Colombia)

*Speakers:* Antonio Yúñez (CEE y PRECESAM, El Colegio de México), Gervasio Castro de Rezende and Steve Helfand (Castro de Rezende at Universidade Federal Fluminense and Helfand at Instituto de Pesquisa Economica Aplicada — IPEA), Steven Helfand (University of California at Riverside, USA) and Lovel Jarvis (University of California at Davis, USA)

16:00–17:30 Contributed Papers IV

**CPS 4-1: Sustainable Development, Bio-Economic Models and Innovation**

*Chairperson:* Daniel Bromley

*Analysis of Policy Issues in the Atlantic Zone of Costa Rica using Integrated Bio-Economic Land Use Models;* Hans GP Jansen, Robert A. Schipper, Huib Hengsdijk (The Netherlands) and Bas A.M. Bouman, Fernando Saenz (Costa Rica) and Andre Nieuwenhuyse (Bolivia)

*Innovation in Agriculture:* Innovators, Early Adopters and Laggards; Hans Van Meijl, Paul Diederer and Arjan Wolters (The Netherlands)

*Innovation Systems and Technology Policy:* Zero Tillage in MERCOSUR; Javier Ekboir (Argentina)

*Low External Input Agricultural Systems:* Economics and Sustainability; David Lee and Ruerd Ruben (USA)

**CPS 4-2: Reform in Transitional Countries**

*Chairperson:* George Mergos

*A Rent Seeking Model for Analysing a Failed Agricultural Reform; The Bulgarian Case;* Markus Hanisch and Ferdinand Pavel (Germany)

*The Impact of the Official Development Assistance On Economic Growth in Transition Economies:* An Empirical Study; Azeta Cungu (Belgium)

*WTO Commitments and EU Accession from the Candidate Countries Point of View;* Andrea Elekes and Peter Halmai (Hungary)

**CPS 4-3: Exchange Rate Adjustment Effects**

*Chairperson:* Alan Matthews

*Devaluation under Decreasing Marketing Margins through infrastructure Investment;* Peter Wobst (USA) *Welfare Effects of the Franc CFA Devaluation in Benin;* Jean Senahoun (Germany), Daniel Deybe (France) and Franz Heidhues (Germany)

*The Effect of Nominal Exchange Rate Misalignment on Agricultural Trade;* Ian M. Sheldon, Guedae Cho (USA) and Steve McCorriston (UK)

**CPS 4-4: Technological Change**

*Chairperson:* Wallace Huffman

*Cyclical Concentration and Biotech R&D Activity:* A Neo-Schumpeterian Model; James Oehmke, Christopher Wolf, Dave Weatherspoon, Anwar Naseem, Mywish Maredia, Kellie Raper and Amie Hightower (USA)

*Technology, Policies, and the Global Poultry Revolution;* Clare Narrod and Carl Pray (USA)

*Winter Wheat in England and Wales, 1923–1995: What do Indices of Genetic Diversity Reveal?* C.S. Srinivasan (India)

Use of an Indigenous Board Game, 'bao' for Assessing Farmers' Preferences among Alternative Technologies. Steven Franzel (Kenya)

**CPS 4-5: Climate and Development**

*Chairperson:* Mark Rosegrant

Accelerating Agricultural Intensification in the Riskier Environments of Sub-Saharan Africa. Valerie Kelly, Mbaye Yade (USA) and Kako Nubukpo, Marcel Galiba (Mali)

*The Tropics ARE Different:* Climate and Economic Growth; William Masters and Margaret McMillan (USA)

Evaluation of Drought Management in Irrigated Areas. Eva Iglesias; Alberto Garrido and Almudena Gomez-Ramos (Spain)

The Implications of El Nino/Southern Oscillation Events on World Rice Production and Trade; Ching-Cheng Chang and Chi-Chung Chen (Taiwan)

**CPS 4-6: Efficiency in African Markets**

*Chairperson:* Tom Fenyes

How Transaction Costs Influence Cattle Marketing Decisions in the Northern Communal Areas of Namibia; N. Vink, P. de Bruyn, J.N. de Bruyn and J.F. Kirsten (South Africa)

Integration of Zambian Maize Markets; Jens-Peter Loy and Rainer Wichern (Germany)

The Role of Intermediaries in Enhancing Market Efficiency in the Ethiopian Grain Market; Eleni Gabre-Madhin (Ethiopia)

Analysis of Agricultural Market Institutions and their Impact in the Southern African Development Community; Firmino G. Mucavele (Mozambique)

**CPS 4-7: Controlling Pests and Pathogens**

*Chairperson:* Simeon Ehui

Evaluating the Economic Effectiveness of Pathogen Reduction Technology in Beef Slaughter Plants; Scott Malcolm, Clare Narrod, Michael Ollinger and Tanya Roberts (USA)

*Economic Analysis of Environmental Benefits of Integrated Pest Management:* A Phillipine Case Study; Leah C.M. Cuyno (Phillipines) and George W. Norton (USA)

Hot Spots in Animal Agriculture, Emerging Federal Environment Policies and the Potential to Efficiency and Innovation Offsets; Frank M. Wefering and Ada Wossink (USA)

17:30–19:00 Plenary Session V (Best Poster Competition)

**Friday, 18 August 2000**

8:30–10:30 Plenary Session VI: Making Agriculture Environmentally Safe

*Chairperson:* J. McInerney (UK)

*Discussant:* M. Hossain (Bangladesh), Precision Agriculture: Global Prospects and Environmental Implications; George Norton (USA), Crop Genetic Diversity in Modern Agriculture: What it is, Where it is, and How to Maintain it; Melinda Smale (USA)

Population Pressure, Land Tenure, Natural Resource Management; Kei Otsuka (Japan)

Agricultural Trade Barriers, Trade Negotiations, and the Interests of Developing Countries; Hans Binswanger (Switzerland)

11:00–12:30 Poster and Computer Session III

*Poster Session III*

Food Consumption and Nutrition:

*Chairperson:* Jose M. Gil

*Discussant:* Stephan Brosig

**Agriculture and the Downstream Sector:***Chairperson:* Hannes Weindlmaier*Discussant:* Steve McCorriston**Agricultural Trade and CEECs:***Chairperson:* Ian M. Sheldon*Discussant:* Benoit Daviron**Agricultural Developments in CEECs:***Chairperson:* Hans van Meijl*Discussant:* Wojciech J. Florkowski**Rural Development in the EU and CEECs:***Chairperson:* Fernando Brito Soares*Discussant:* Matthias Schneider**Agri-Environmental Programs:***Chairperson:* Konrad Hagedorn*Discussant:* Heinz Ahrens**Irrigation in LDCs:***Chairperson:* Alessandro Corsi*Discussant:* Steffen Abele**Institutional Changes in CEECs:***Chairperson:* Jozsef Toth*Discussant:* Paul Diederer**Research and Education in LDCs:***Chairperson:* Vasant A. Sukhatme*Discussant:* Heinrich Hockmann**Environment and Technological Change:***Chairperson:* Suresh Babu*Discussant:* Nikolaus Gotsch**EU East Enlargement:***Chairperson:* Martin Banse*Discussant:* Susan Leetmaa**Investment and Rural Finance:***Chairperson:* Eric Tollens*Discussant:* Carlo del Ninno**Household Issues:***Chairperson:* Awudu Abdulai*Discussant:* Christoph Weiss*Computer Session III**Chairperson:* Peter Weingarten*Communicating a Vision of the Future with Optimisation Models and Virtual Landscapes:*

An Application to Community Management of the Jalapa Watershed in Honduras;

Gregorie Leclerc, Alexander Hernandez, Orlando Mejia and Bruno Barbier

A Decision Support System for the Economic-Environmental Assessment of Crop Production; Carlo Pirazzoli, Guido Maria Bazzani and Paolo Caggiati  
Agent-Based Modelling in Agricultural Economics; Kathrin Happe

13:30–15:30 Invited Panel Session IV (three concurrent sessions)

**Panel 15: Food Safety in the Changing World Food System**

*Chairperson:* L. Unnevehr (USA)

*Speakers:* Merlinda Ingco (World Bank, The SPS Agreement and LDCs), Jill Hobbs (University of Saskatchewan), Istvan Feher (Gödöllő University, Hungary), Jutta Roosen (Catholic University of Lovain, Belgium) and Helen Jensen (Iowa State University, USA; Rapporteur)

**Panel 16: WANA: Food Security in the Context of Changing the Course of Economic Reform in the WANA Countries**

*Chairperson:* M. Nasr (Egypt)

*Speakers:* Mohamed Omran (USAID, Cairo, Egypt), Gaafar Karrar (Managing Director, Karrar Consultants, Khartoum, Sudan), Shoupair El-Harrazi (Agricultural Economist, Sanaa University, Sanaa, Yemen) and Driss Naitbach (Agricultural Economist, Co-operative Amal Hay Fath, Rabat, Morocco)

**Panel 17: Rural Infrastructure: Investment, Delivery & Finance**

*Chairperson:* P. Hazell (USA)

*Speakers:* Shenggen Fan (IFPRI, Washington DC, USA), Walter Huppert (Deutsche Gesellschaft für Technische Zusammenarbeit — GTZ, Germany), Ashok Gulati (Institute of Economic Growth, New Delhi, India) and Frederick Roche (Asian Development Bank, Manila, Philippines)

16:00–17:30 Contributed Papers V

**CPS 5-1: Insurance and Uncertainty**

*Chairperson:* Claus-Hennig Hanf

The Production Effects of Direct Payments and Tax Reductions on Farm Profits Under Uncertainty; Renan-Ulrich Goetz, Joan Ribas-ur (Spain), Alois Keusch (Switzerland)

Conceptual Considerations in Developing an Income Insurance for European Farmers; Miranda Meuwissen and R.B.M. Huirne (The Netherlands), J.B. Hardaker (Australia), J.R. Skees and J.R. Black (USA)

*Market Based Commodity Price Insurance for Developing Countries: Towards a New Approach;* Alexander Sarris (Greece)

**CPS 5-2: Economics of Trade**

*Chairperson:* Tibor Ferenczi

A Simple Test of Discriminatory Trade In a Source and Quality-Differentiated Import; Market. Kevin Z. Chen (Canada)

A New Approach to the Evolution of Primary Commodity Terms of Trade and Implications for Developing Countries; George P. Zanas (Greece)

The Definition of Export Subsidies and the Agreement on Agriculture; Isabelle Schluep and Harry de Gorter (USA)

**CPS 5-3: Market Power and Change**

*Chairperson:* Lars Brink

*Market Power in the Dairy Sector and Structural Effects of Government Intervention:* Swedish Dairy Co-operatives; Anna Hedberg (Sweden)

Globalisation and Profitability Adjustment in International Food Industries. Yvonne Acheampong, James E. Epperson, Timothy A; Park and Lewell F. Gunter (USA)

Free Market Prices and Reform in the Chinese Grain Marketing System; Ziping Wu and Seamus McErlean (UK)

**CPS 5-4: Effectiveness of Livestock Research***Chairperson:* Paul Webster*An Ex Ante Economic and Policy Analysis of Biotechnology on Livestock Disease Resistance:* Trypanosomosis in Africa; Cesar Augusto Falconi (The Netherlands), Steven Were Omamo (Kenya) and Guy d'Ieteren (Belgium)*Impact of Livestock Research on Poverty Alleviation in Sub-Saharan Africa:* A Global, General Equilibrium Analysis; Simeon Ehui (Ethiopia) and Marinos Tsigas (USA)*Is Livestock Research Unproductive? Separating Health Maintenance from Improvements;* R.F. Townsend (Zimbabwe) and Colin Thirtle (UK)**CPS 5-5: Selected Issues***Chairperson:* Michelle Veeman*International Transfers and Food Security;* Alan Matthews (Ireland) and Christian Friis Bach (Denmark)*Academic Rigour or Policy Relevance: A Reconciliation?* David R. Harvey (UK)*Making Better Sense of the Numbers on Developing Economy Agriculture;* Ellen Hanak-Freud (France)**CPS 5-6: Microfinance and Credit***Chairperson:* Peter Hazell*The Material Conditions for Microfinance in Rural Argentina.* Mark Schreiner (USA)*Risk, Credit Constraints, and Agricultural Employment in India's SAT;* Marrit van den Berg (The Netherlands)*The Theory and Practice of Innovations in Rural Microfinance;* Frederic Martin, Sylvain Lariviere and Peter Calkins (Canada)*Infrastructure and Rural Development:* Insights from a Grameen Village Telephone Initiative in Bangladesh; Abdul Bayes (Bangladesh)**CPS 5-7: Economics of Forest Management***Chairperson:* George Norton*Comparative Dynamics of Forest Resource Extraction by Local Communities;* Ujjayant Chakravorty (USA) and Herath M. Gunatilake (Sri Lanka)*Community Resource Management:* The Case of Woodlots in Tigray N. Ethiopia; Berhanu Gebremedhin (Ethiopia), John Pender (USA) and Girmay Tesfaye (Ethiopia)*Determinants of Deforestation and the Economics of Protection:* An Application to Mexico; Klaus Deininger (USA) and Bart Minten (Belgium)**17:30–19:00 Closing Session***Organiser and Chairperson:* Joachim von Braun (Germany)*Panelists with Synoptic Views:* Globalisation of the Food and Agricultural Economy; Hartwig de Haen (Germany)*Improved Market Incentives in Transition Economies;* Justin Lin (China)*Agricultural Research, Technology Development and Institutions;* Bongiwe Njobe (South Africa)*Making Agriculture Environmentally Safe;* John McNerney (UK)*Conference Synthesis,* Joachim von Braun, President Elect IAAE**19:00** Reception**20:00** Farewell Dinner at Hotel InterContinental

Post Conference Tours from 20 to 23 August 2000:

- Tour to Poland/Poznan via the Natural Reserve "Unteres Odertal"
- Tour to the Czech Republic/Prague via the Natural Reserve Spreewald

**Minisymposia and Discussion Groups**

- Discussion Group 1:** *Moving Towards a Global Agricultural Economy. Genetically modified Organisms and Technical Barriers to Trade: International Perspectives.*  
*Organiser:* Jimmye Hillman (USA)
- Minisymposia 2:** *Food and Agricultural Sectors in Developing Countries: What do they have to gain or lose in Trade Negotiations?*  
*Organiser:* John Stovall (USA)
- Minisymposia 3:** *The MERCOSUR, Agribusiness and the New Millennium.*  
*Organiser:* Da Rocha Ferreira (Brazil)
- Minisymposia 4:** *Structural Adjustments in the European Union and USA. Dairy Industries: Farm Management Implications.*  
*Organiser:* Stephen Harsh (USA)
- Minisymposia 5:** *Cotton and Textile Production in the Global Trading System: Where does Africa stand?*  
*Organiser:* Madeleine Gauthier (USA)
- Discussion Group 6:** *Improved Market Incentives and Institutions. Analysing Policy Delivery Systems.*  
*Organiser:* Ed Rossmiller (England)
- Discussion Group 7:** *Technology Demand and Access: Assessing Areas and Crops Where Diffusion has Stalled.*  
*Organiser:* Greg Traxler (USA)
- Minisymposia 8:** *Impact of Policy Reform on the Well-Being of Vulnerable Groups: Evidence from the USA, Zimbabwe, and the Middle East.*  
*Organiser:* Jeff Alwang (USA)
- Minisymposia 9:** *New Investment Theory in Agricultural Economics — Its Implication for Farm Management, Development and Environmental and Agricultural Policies.*  
*Organiser:* Martin Odening (Germany)
- Minisymposia 10:** *Institution Sequencing and Timing in Transition Economies.*  
*Organiser:* Gertrud Schrieder (Germany)
- Minisymposia 11:** *Building Financial Markets in Developing Countries for Tomorrow's Agriculture: Status, Reforms and Innovations.*  
*Organiser:* Richard L. Meyer (USA)
- Minisymposia 12:** *Reform and Future of National Agricultural Statistics Systems.*  
*Organiser:* Glenn Rogers (Egypt)
- Minisymposia 13:** *Improving Land Access and Asset Ownership by the Poor through Land Reform: Empirical Evidence and Policy Implications.*  
*Organiser:* Klaus Deininger (USA)
- Minisymposia 14:** *A Minisymposium in Honour of Carl K. Eicher. Institutional Capital to Support Rural Development in Africa: What have we learned and what are the Challenges?*  
*Organiser:* John Strauss (USA)
- Minisymposia 15:** *Performance of Non-Viable Farm Sector in the Rural Economy among Agro-Based Developing Countries.*  
*Organiser:* T. Satyanarayan (India)
- Minisymposia 16:** *Risk and Agricultural Input Use: Analysis and Mitigation.*  
*Organiser:* Eric Crawford (USA)
- Minisymposia 17:** *New and Innovative Instruments to Manage Risks in Rural Areas: Towards an Integrated Framework for Poverty Reduction.*  
*Organiser:* Paul Siegel
- Minisymposia 18:** *How do Farmers Find Their Way in the New Food System in Transition Economies?*  
*Organiser:* Csaba Forgacs (Hungary)

- Discussion Group 19:** Agricultural Research and Development Policy. Genetically Modified Crops — The Food Industry, Producers, Consumers, and Environmentalists.  
*Organiser:* Volker Beusmann (Germany)
- Minisymposia 20:** Biotechnology Innovation and the Private Sector.  
*Organiser:* Mary Bohman (USA)
- Minisymposia 21:** *Crop Genetic Diversity in Modern Production Systems:* Efficiency and Policy Implications.  
*Organiser:* Erika Meng (Mexico)
- Minisymposia 22:** Priorities for Economic and Policy Research in Food, Agriculture and Rural Development.  
*Organiser:* William H. Meyers (Italy)
- Minisymposia 23:** *Emerging Issues in Agricultural Research Policy and Funding:* Lessons from Case Studies.  
*Organiser:* Ruben Echeverria (Uruguay)
- Minisymposia 24:** *Making Agriculture Environmentally Safe. Dynamism of Agricultural Systems and Rural Communities in South Asia:* From Vulnerability to Sustainability.  
*Organiser:* Keshav L. Maharjan
- Minisymposia 25:** Integrating Approaches for Natural Resource Management and Policy Analysis.  
*Organiser:* Thomas Berger (Germany)
- Minisymposia 26:** Policy Analysis; Bio-Economic Models, Multi-Agent Systems, and Cellular Automata.  
*Organiser:* Alfons Balmann (Germany)
- Minisymposia 27:** *Agriculture's Provision of Positive Amenities:* The Role for Government?  
*Organiser:* David Oglethorpe (UK)
- Minisymposia 28:** Economics and Policy of Organic Farming: What can be Learned from the European Experience?  
*Organiser:* Stephan Dabbert (Germany)
- Minisymposia 29:** Economics of Food Safety.  
*Organiser:* Tanya Roberts (USA)
- Minisymposia 30:** Effects of Health Information on the Demand for Food.  
*Organiser:* Wen S. Chern (USA)







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