

23rd ICABR Conference Agenda

Date: Wednesday, 05/Jun/2019

8:30am Opening Address - ICABR President Carl Pray

- Location: **Auditorium**

8:40am Chair: Prof. Carl Pray, Rutgers University

8:40am Giovanni Tria, Italian Minister of Economy and Finances

- Location: **Auditorium**

9:00am

9:00am Andrés Murchison, Secretary of Food and Bioeconomy, Ministry of Agroindustry, Argentina

- Location: **Auditorium**

9:20am

9:20am Keynote Speaker - Steve Long

- Location: **Auditorium**

10:20am Bioengineering of crops could sustainably double global crop production – but will society allow?

Bioengineering Of Crops Could Sustainably Double Global Crop Production – But Will Society Allow?

Stephen P. Long, Carl R. Woese

University of Illinois

10:20am Plenary - The Impact of CRISPR on Developing Countries

- Location: **Auditorium**

11:20am

Chair(s): **David Zilberman** (UC Berkeley), **Carl Pray** (Rutgers)

The Value and Potential of Improved Genomic Knowledge

Howard Shapiro

Mars

The Value of CRISPR Solutions to the Fusarium Problem in Bananas

Ramon Espinel

Polytechnic of Guayaquil

The Vision of IGI of the Application of CRISPR

David Zilberman

UC Berkeley

11:20am Coffee Break - Sponsored by University of Victoria

- Location: **Terrace**

11:40am Posters will be exhibited over the entire conference period. During coffee breaks authors are encouraged to stand by their posters to further explain to anyone interested.

11:40am Digital Ag

- Location: **Ravello Room**

1:00pm Chair: **Dr. Lana Awada**, University of Saskatchewan

Governing Agriculture's Data Revolution: A Behavioral Approach to Understanding Ag-Data Transactions

Graeme Jobe¹, Peter W.B. Phillips²

1: Johnson Shoyama Graduate School of Public Policy, University of Saskatchewan; 2: Johnson Shoyama Graduate School of Public Policy, University of Saskatchewan

Association Rule Mining in the field of Agricultural Transportation

Andréa Leda Ramos de Oliveira¹, Carlos Eduardo Souza Moreira², Akebo Yamakami¹

1: University of Campinas - UNICAMP; 2: Matera Systems Informática

Digital Opportunities For Better Agricultural Policies: Insights From Agri-environmental Policies

Gwendolen DeBoe, Marie-Agnès Jouanjean

OECD

Digital Opportunities For Trade In Agriculture And Food Sectors

Marie-Agnès Jouanjean

OECD

1:00pm Lunch

- Hotel Graal, they will have snack menus available; 10% discount at Bar Calce 2 on the top of the road 10% discount at Bar Calce in the main square 15% discount at

2:00pm Hotel Bonadies restaurant (5 min walking from the auditorium)

2:00pm Ag Production

- Location: **Ravello Room**

3:20pm Chair: **Prof. Lilyan Fulginiti**, University of Nebraska

IPR and Ag Development

Location: **Auditorium**

Chair: **Prof. Michael Leslie Blakeney**, University of Western Australia

Agricultural Innovation and the Protection of Traditional Rice Varieties from Kerala

Michael Leslie Blakeney

University of Western Australia

Intellectual Property Rights and Agricultural Development. 1961-2018

Mercedes Campi¹, Alessandro Nuvolari²

1: National Scientific and Technical Research Council / University of Buenos Aires; 2: Institute of Economics, Scuola Superiore Sant'Anna

Make or buy? Farmers 'choice of farm-saved seed in Sweden

Chrysa Morfi, Kostas Karantininis

Swedish University of Agricultural Sciences

Can The Private Sector Do What Is Needed For Innovative Technology For Poverty-Reducing Agricultural Development?

Jock Anderson¹, Latha Nagarajan², Anwar Naseem¹, Carl Pray¹

1: Rutgers University; 2: IFDC

Risk Management

Location: **Auditorium**

Chair: **Dr. Travis W Reynolds**, University of Vermont

The Distribution of Returns from Land Quality Improvement in Multistage Production Systems

Lana Awada¹, Peter Phillips²

1: University of Saskatchewan; 2: University of Saskatchewan

Balancing Costs and Benefits of Plant Invasive Species for Innovative and Sustainable Agricultural Policy Design

Abdelmohssin El Mokaddem, M. Rachid Doukkali

University Mohammed VI Polytechnic

How Much Is Free Irrigation Water Really Worth?

Federico Trindade¹, Lilyan Fulginiti², Richard Perrin²

1: University of Washington; 2: University of Nebraska

The Nagoya Protocol: From Foe To Friend?

Hanna Schebesta, Justus Wesseler

Wageningen University

Developing A Territorial Biorefinery. A Contractual Approach

Fabio Bartolini

University of Pisa

Combining Product Certification and Regional Risk Assessment – The Case of Palm Oil in the Bioeconomy

Josephin Helka¹, Stefan Majer¹, Daniela Thrän^{1,2}

1: DBFZ Deutsches Biomasseforschungszentrum gGmbH; 2: Helmholtz Centre for Environmental Research - UFZ

3:20pm Coffee Break - Sponsored by CropLife International

- Location: **Terrace**

3:40pm Posters will be exhibited over the entire conference period. During coffee breaks authors are encouraged to stand by their posters to further explain to anyone interested.

3:40pm Ag Food Innovations

- Location: **Auditorium**

5:00pm Chair: **Prof. Samuel Thomas Ledermann**, George Washington University

Biotech Commercialization

Location: **Niemeyer Room**

Chair: **Dr. Henry An**, University of Alberta

The Exclusion Criteria ‘Genetic Engineering’ In Sustainable Finance As A Sign Of Shunning Rather Than Assuming Corporate Responsibility

Isabelle Schlupe

University of Zurich

Strategic Behavior In Stated Preferences And The Demand For Gene-edited Canola Oil

Henry An¹, Vic Adamowicz¹, Patrick Lloyd-Smith²

1: University of Alberta; 2: University of Saskatchewan

Economic Potentials and Environmental Shortcomings of Agricultural Impact Investments for Sustainable Development

Samuel Thomas Ledermann¹, Adrian Müller^{2,3}

1: George Washington University; 2: ETH Zürich; 3: Research Institute of Organic Agriculture (FiBL)

The Cost Of Seed Type Misidentification (Or The Value Of Knowing What You Plant)

Federico José Trindade¹, Ayala Wineman¹, Leigh Anderson¹, Timothy Njagi²

1: Evans School of Public Policy & Governance - University of Washington; 2: Tegemeo Institute for Agricultural Policy and Development

The Impact of Climate Change on Aflatoxin Contamination in US Corn

Jina Yu¹, David A. Hennessy¹, Felicia Wu^{1,2}

1: Department of Agricultural, Food, and Resource Economics, Michigan State University; 2: Department of Food Science and Human Nutrition, Michigan State University

Global Trade Impacts of GMO Commercialization

Kjersti Nes¹, Kurt Aleks Schaefer², Daniel Scheitrum³

1: University of California, Davis; 2: Royal Veterinary College, University of London; 3: University of Arizona

5:00pm ICABR Annual General Meeting

- Location: **Auditorium**

7:00pm Chair: **Prof. Carl Pray**, Rutgers University

ICABR Annual Meeting - All registered attendees eligible to attend are welcomed

Impact of GMO Approvals on Global Food Supply

Daniel Paul Scheitrum¹, K. Aleks Schaefer², Kjersti Nes³

1: University of Arizona; 2: University of London; 3: University of California, Davis

Date: Thursday, 06/Jun/2019

8:45am Opening Address - Justus Wesseler

- Location: **Auditorium**

9:00am

9:00am Keynote Speaker- Arnoud Boot: Evenson Lecture

- Location: **Auditorium**

10:00am **Changing finance, and financing change: Finance for sustainable development**

10:00am Plenary - The Judgment Of The Court Of Justice Of The European Union (CJEU) On Organisms Obtained By Mutagenesis: Implications For Agriculture Development In The EU And Beyond

- Location: **Auditorium**

11:00am Chair: **Prof. Justus Wesseler**, Wageningen University

Interpretation Of The Judgement From A Legal Perspective

Hanna Schebesta
Wageningen University

Innovation In Organic Farm And Food Systems

Urs Niggli
Research Institute of Organic Agriculture (FiBL)

Guidelines For Reforming GMO Regulations

Regina Birner
University of Hohenheim

Implications For Food labeling And Related International Trade

Justus Wesseler
Wageningen University

11:00am Coffee Break - Sponsored by Wageningen University & Research

- Location: **Terrace**

11:20am Posters will be exhibited over the entire conference period. During coffee breaks authors are encouraged to stand by their posters to further explain to anyone interested.

11:20am Finance

- Location: **Niemeyer Room**

12:40pm Chair: **Dr. Leigh Anderson**, University of Washington

Definitions of "Rural" and "Urban" and Understandings of Transformation in Sub-Saharan Africa

Ayala Wineman, Didier Yélognissè Alia, C. Leigh Anderson
University of Washington

Measurement Considerations for Prioritizing Input Use among Smallholder Farmers in Ethiopia and Tanzania

Travis W Reynolds¹, C. Leigh Anderson²
1: University of Vermont; 2: University of Washington

Venture Capital and the Transformation of Private R&D for Agriculture

Felipe de Figueiredo Silva¹, Gregory Graff², David Zilberman¹
1: University of California Berkeley; 2: Colorado State University

Food Systems

- Location: **Ravello Room**

Chair: **Prof. Justus Wesseler**, Wageningen University

Specialization in Food Production and Food Security: a Bipartite Network Analysis

Marco Dueñas¹, Mercedes Campi², Giorgio Fagiolo³

1: Universidad de Bogotá Jorge Tadeo Lozano; 2: National Scientific and Technical Research Council / University of Buenos Aires; 3: Institute of Economics, Scuola Superiore Sant'Anna

Access to Nutritious Diets as a Policy Indicator for Agricultural Transformation and Healthy Food Systems

William A. Masters
Tufts University

The Opportunities and the Policy Challenges to the Circular Agri-food System

Justus Wesseler
Wageningen University

Secondary Towns – The Nutritional Sweet Spot? A study of East Africa

Hannah Ameve¹, Joachim De Weerd^{1,2}
1: LICOS, KU Leuven; 2: IOB, UAntwerpen

Panel I: Digital Sequence Information - Issues, Implications and Impacts

- Location: **Auditorium**

Chair: **Prof. Jeremy De Beer**, University of Ottawa

Presentations

Governance of Digital Sequence Information And Impacts For Access And Benefit Sharing

Diego Maximiliano Macall
University of Saskatchewan

Can Brazil Improve Biodiversity Conservation By Balancing Increased Use Of Biodiversity For Research And Economic Growth While Benefit Sharing?

Lúcia de Souza
(International Service for the Acquisition of Agri-biotech Applications

"What's Yours is Mine and What's Mine is Mine": Digital Sequence Information and Benefit-sharing Obligations under the Nagoya Protocol

Marqo A. Bagley
Emory University

The impact of the Argentine Regulation applied to Gene Editing on innovation

Agustina I. Whelan¹, Martin Lema²
¹University of Buenos Aires, ²Biotechnology Directorate

12:40pm **Speakers Commemorating the 30th Anniversary of Tor Vergata Lunch**

- Location: **Terrace**

2:20pm Chair: **Dr. Sara Savastano**, IFAD, World Bank and University of Rome Tor Vergata

Presentations

Speakers Commemorating the 30th Anniversary of Tor Vergata

Giuseppe Novelli¹, Pasquale L. Scandizzo², Edmund S. Phelps³, Luigi Paganetto⁴

¹University of Rome Tor Vergata, ²Ministry Economy and Finances, and FUET, ³2006 Nobel laureate in Economics, ⁴Vice Chairman at Cassa Depositi e Prestiti and FUET

2:20pm - 3:40pm	<p>Panel II: Contribution of the Bioeconomy to the SDGs Location: Auditorium Chair: Prof. Justus Wesseler, Wageningen University</p> <p><i>Presentations</i></p> <p>The EU Bioeconomy Strategy and its contributions towards global challenges Robert M'Barek EC</p> <p>Modelling The Development Of The Bioeconomy Towards 2050 Hans van Meijl WUR</p> <p>Measuring The Contribution Of The Bioeconomy Towards Reaching The SDGs Justus Wesseler WUR</p>	<p>Science and Society Location: Niemeyer Room Chair: Dr. Jill J. McCluskey, Washington State University</p> <p>Adoption, Regulation and Commercialization of Veterinary Biologics: Opportunities for Subunit Vaccines for Johnes's Disease and Bovine Tuberculosis in Beef and Dairy Cattle Albert Ugochukwu, Peter W.B. Phillips University of Saskatchewan</p> <p>Twitter Assessment of Monsanto Glyphosate Trial: Implications for Social Sciences Research Ana Maria Bogdan¹, Simona Antoaneta Lubieniechi², Steven Liu³, Stuart Smyth² 1: Social Sciences Research Laboratories, University of Saskatchewan; 2: Agricultural and Resource Economics, University of Saskatchewan; 3: Computer Science, University of Saskatchewan</p> <p>Social Interactions and the Market for New Technology Jason A. Winfree¹, Jill J. McCluskey² 1: University of Idaho; 2: Washington State University</p> <p>Scoping Analysis of Biopolymer Production in Argentina Kutay Cingiz, Justus Wesseler Wageningen University and Research</p>	<p>Supply Food Chain Location: Ravello Room Chair: Dr. Enoch Kikulwe, Bioversity International</p> <p>Can Uganda benefit from Adopting GM Bananas and Cassava - Ex-Ante Economic Assessment of Potential Impacts and Regulatory and Institutional Hurdles Enoch Mutebi Kikulwe¹, Jose Falck-Zepeda² 1: Consultant; 2: IFPRI</p> <p>A Conceptual and Empirical Framework to Analyze the Economics of Food Loss and Waste and Policy Interventions Dusan Drabik¹, Harry de Gorter², Christian Reynolds³ 1: Wageningen University; 2: Cornell University; 3: WRAP GLOBAL</p> <p>Setting Effective and Functional, SDG-consistent, Transformational Pathways for Agro-Food Chains using a Flexible Multi-Objective, Stakeholder-Participatory Backcasting Approach. Bruno Lanfranco, Bruno Ferraro, Enrique Fernández, Juan Manuel Soares de Lima Instituto Nacional de Investigación Agropecuaria</p>
3:50pm - 5:10pm	<p>Innovations in Society Location: Niemeyer Room Chair: Carolina da Silveira Bueno, University of Campinas</p> <p>The Evolution of Collaborative Networks in Bioenergy and the Challenges to Innovate Carolina da Silveira Bueno, Jose Maria Ferreira Jardim da Silveira University of Campinas</p> <p>Why do People oppose GMOs? – A Literature Review on current Findings and Debates Gabi Waldhof IAMO Halle / Saale</p> <p>Effects Of Cannabis Testing Regulations: A Market Approach Robin Goldstein^{1,2}, Dan Sumner^{1,3} 1: University of California Agricultural Issues Center, Davis, CA; 2: Université de Bordeaux, Laboratoire d'analyse et de recherche en économie et finance internationales; 3: University of California, Davis</p>	<p>Panel III: Next Gen & Gender Location: Auditorium Chair: Dr. Leigh Anderson, University of Washington</p> <p>Gender and the Next Bioeconomy Generation <i>Chair(s):</i> David Zilberman (University of California Berkeley)</p> <p><i>Presentations</i></p> <p>Jill McCluskey Washington State University</p> <p>Gero Carletto World Bank</p> <p>Jennifer A. Thomson University of Cape Town</p>	<p>Regulations Location: Ravello Room Chair: Prof. David Castle, University of Victoria</p> <p>Risk And Safety Considerations Of Precision Plant Breeding: Expert Opinion Rim Lassoued, Diego Maximiliano Macall, Hayley Hesseln, Peter W.B. Phillips, Stuart J. Smyth University of Saskatchewan</p> <p>Whither Democratic Engagement? David Castle, Stuart Smyth, Peter Phillips University of Victoria</p> <p>Case Studies Dealing With The Bioeconomy in Social Sciences: State Of The Art And Challenges. Gianmaria Tassinari^{1,2}, Claudio Soregaroli², Dusan Drabik¹, Stefano Boccaletti² 1: Wageningen University; 2: Università Cattolica del Sacro Cuore</p>
6:30pm - 7:00pm 7:00pm - 11:00pm	<p>Transport to Gala Dinner in Amalfi Pick up will be at the Gallery Bus station in Ravello.</p> <p>Gala Dinner Restaurant in Amalfi Address: Le Nereidi Via Tuoro, 8 84011 Amalfi, Salerno</p>		

Date: Friday, 07/Jun/2019

8:45am **Opening Address Friday - Sara Savastano (IFAD)**

- Location: **Auditorium**

9:00am

9:00am **Keynote Speaker - Thomas Reardon: Santaniello Lecutre**

- Location: **Auditorium**

10:00am **The Digital and Robotic Revolution in Agrifood Supply Chains**

Jointly prepared with David Zilberman, Liang Lu, Titus Awokuse, Scott Swinton, Carl Pray, Regina Birner and Sara Savastano

10:00am **Plenary: Universities and Ag Development**

- Location: **Auditorium**

11:20am

Chair(s): **Sara Savastano** (University of Rome Tor Vergata), **Carl Pray** (Rutgers University)

Presentations

Universities and Ag Development

Maximo Torero Cullen¹, **Avinashay Braverman**², **Karim Elaynaoui**³, **Giuseppe Novelli**⁴

¹Assistant Director General FAO, ²Ben-Gurion University, Israel, ³Faculty of Economics and Social Sciences, UM6P, Morocco, ⁴University of Rome Tor Vergata

11:20am **Coffee Break**

- Location: **Terrace**

11:40am Posters will be exhibited over the entire conference period. During coffee breaks authors are encouraged to stand by their posters to further explain to anyone interested.

11:40am **Biodiversity Policy**

- Location: **Niemeyer Room**

1:00pm Chair: **Anwar Naseem**, Rutgers University

The Role of an Enabling Environment and Regulations in Raising Maize Productivity

Anwar Naseem¹, **Latha Nagarajan**², **Carl Pray**¹

1: Rutgers University; 2: IFDC

Minimising Sustainable Development Goal Planetary Trade-offs Through the Quantification of BioEconomy Public Policy Interventions

George Philippidis¹, **Lindsay Shutes**², **Robert M'barek**¹, **Tévécia Ronzon**¹, **Andrzej Tabeau**², **Hans Van Meijl**²

1: European Commission; 2: Wageningen Economic Research

How Informed are Consumers about New Biotech Food Technology? A Role for New Information

Katherine Lacy¹, **Wallace Huffman**², **Jonathan McFadden**³

1: University of Nevada-Reno; 2: Iowa State University; 3: USDA-ERS

Panel IV: Financial challenges to the Diffusion of Environmental Innovation: agent based models

Location: **Auditorium**

Financial challenges to the Diffusion of Environmental Innovation: agent based models;

Chair(s): **José Maria F.J. Da Silveira** (University of Campinas)

Presentations

The role of Finance in environmental innovation Difusion

Paola D'Orazio¹, **Valente Marco**²

¹Universitat Bochum _Ge, ²LEM- Sant'anna School fo Business; SPRU, Aquila

And Then He Wasn't a She: Climate Change and Green Transitions in an Agent-Based Integrated Assessment Model

Alessandro Safio¹, **Francesco Lamperti**², **Giovanni Dosi**²

¹Università Parthenope, Naples, ²Sant'Anna School of Business

An Introduction To ABM Modeling And Its Application In Bioeconomy

José Maria F.J. Da Silveira

University of Campinas

Can Preferential Credit Programs Speed up The Adoption of Low-carbon Agricultural Systems in Mato Grosso, Brazil?

Thomas Berger¹, **Marcelo Carauta**², **Affonso Dala Libera**³

¹Universitat Hoheinhein, ²Univeristat Hoheinhein, ³IFMT-Brazil

Public Engagement

Location: **Ravello Room**

Chair: **Prof. Ellen Goddard**, University of Alberta

How Trust In Government Regulation Increases Interest In Foods Produced With Biotechnology

Ellen Goddard

University of Alberta

Impact of Misinformation about GM products on Consumers' Attitudes and Purchasing Behavior

Changxin Yu

Beijing Institute of Technology

Consumer Acceptance of Genetically Engineered Food in Canada: The Role of Fairness

Violet Muringai, **Xiaoli Fan**, **Ellen Goddard**

University of Alberta

1:00pm **Lunch**

- Hotel Graal, they will have snack menus available; 10% discount at Bar Calce 2 on the top of the road 10% discount at Bar Calce in the main square 15% discount at Hotel Bonadies restaurant (5 min walking from the auditorium)

2:00pm

2:00pm **Crops & Inputs**
-
3:20pm Location: **Auditorium**
Chair: **Prof. Jennifer A. Thomson**, University of Cape Town

Funding the University of Cape Town drought tolerant maize project

Jennifer A. Thomson¹, **Kershini Iyer¹**, **Suhail Rafudeen¹**, **Revel Iyer²**

1: University of Cape Town, South Africa; 2: Cape Peninsula University of Technology, South Africa

The Effect of Risk Preference on the Behavior in Pesticide Use of Vegetable Farmers

Yangyi Zeng, **Thomas Herzfeld**

Leibniz Institute of Agricultural Development in Transition Economies (IAMO)

Bt Eggplant in Bangladesh Increases Yields and Farmers' Incomes, and Reduces Pesticide Use

Ahsanuzzaman Ahsanuzzaman¹, **David Zilberman²**

1: Virginia Tech; 2: UC Berkeley

3:25pm **ICABR 2019 Closing Remarks**
-
3:45pm Location: **Auditorium**

ICABR 2019 Closing Remarks

Chair(s): **Carl Pray** (Rutgers University), **Justus Wesseler** (Wageningen University & Research)

EU Bioeconomy
Location: **Niemeyer Room**
Chair: **Diego Maximiliano Macall**, University of Saskatchewan

The Contribution Of The EU Bioeconomy Strategy To The UN-SDG: Econometric Analysis Of Synergies And Trade-Offs

Tévécia Ronzon¹, **Ana Sanjuan²**

1: European Commission, Joint Research Centre, Seville, Spain; 2: Centre of Agro-Food Research and Technology of Aragón (CITA), Avda Montañana, 930, 50059 Zaragoza, Spain

The Dynamics of Selected European Bioeconomies

Maximilian Kardung, **Dusan Drabik**

Wageningen University

Insights Into The European Market For Bio-Based Chemicals

Claudia Parisi¹, **Jurjen Spekreijse²**, **Tijs Lammens²**, **Tevecia Ronzon¹**, **Martijn Vis²**

1: European Commission - JRC; 2: Biomass technology group (BTG)

Genome Editing Technologies
Location: **Ravello Room**
Chair: **Dr. Dusan Drabik**, Wageningen University

CRISPR Application in Public and Private Plant Breeding in Canada

Savannah Gleim, **Simona Lubieniechi**, **Stuart Smyth**

University of Saskatchewan

Possible Benefits from Gene Editing in China under Different Regulatory Scenarios

Haiyan Deng¹, **Carl Pray²**

1: Beijing Institute of Technology; 2: Rutgers University

Plant or not to Plant: Optimal Production Share of CRISPR Rice in China under Pest Severity

Yan Jin, **Dusan Drabik**

Wageningen University