

# AGADIR INTERNATIONAL CONFERENCE

THE INTEGRATION OF SUSTAINABLE AGRICULTURE,  
RURAL DEVELOPMENT, AND ECOSYSTEMS IN THE CONTEXT OF  
FOOD INSECURITY, CLIMATE CHANGE, AND THE ENERGY CRISIS

November 12-13-14, 2009  
Anezi Hotel, Agadir (Morocco)



CONFERENCE  
PROGRAM

# CONFERENCE BOARDS / COMITÉS DU CONGRÈS

## Scientific Board / Comité Scientifique

<b>COORDINATOR</b>	<b>Dr. Sidney DRAGGAN</b> , Science Policy Advisor, Environmental Information Coalition (National Council for Science and the Environment), USA		
<b>Dr. Ali MEKOUAR</b>	Division Director, Food and Agriculture Organization (FAO), Italy	<b>Dr. Lorena AGUILAR</b>	Global Senior Gender Advisor, The World Conservation Union (IUCN)
<b>Dr. A. BADR</b>	Professor of tropical fruits, Alexandria Horticulture Research Station, Egypt	<b>Dr. Mark A. WILLIAMS</b>	Associate Professor, Department of Horticulture, University of Kentucky, Agricultural Science North, United States of America.
<b>Dr. Bernard LEHMANN</b>	Head of the "Agri-food & Agri-environmental Economics Group, Institute for Environmental Decisions, Swiss Federal Institute of Technology-ETH Zurich	<b>Dr. Mohamed AIT-KADI</b>	President of the General Council of Agricultural Development, Ministry of Agriculture and Rural Development, Morocco
<b>Dr. M. Azzedine MEKOUAR</b>	Professor, Hassan II-Aïn Chock University of Casablanca and Science Policy Advisor, NRCS	<b>Dr. V. HENSON-APOLLONIO</b>	Senior Scientist, Project Manager, The Central Advisory Service on Intellectual Property (CAS-IP), Bioversity International, Italy
<b>Dr. Carol WILLIAMS</b>	Postdoctoral Research Associate, Agronomy Department, Iowa State University, United States of America	<b>Dr. Zhihua YE</b>	Professor and Director General of the Institute of Quality Standards & Testing Technology for Agri-Products, Chinese Academy of Agricultural Sciences (CAAS), China
<b>Dr. Christian HOSTE</b>	Delegate for the European System for the Agricultural Research for Development (RAD), French Agricultural Research Centre for International Dvlp. (CIRAD)	<b>Dr. Mousa AL FAYAD</b>	Coordinator of the Regional Medicinal & Aromatic plants Network Secretariat in the Association of Agricultural Research Institutions in the Near East and North-Africa (AARINENA), Jordan
<b>Dr. Dominique AGOSTINI</b>	President of the Research Center of Corse, National Institute of Agronomic Research (INRA), France	<b>Dr. Sylvia KARLSSON</b>	Academy Research Fellow, Finland Futures Research Centre, Turku School of Economics, Finland
<b>Dr. Hedayat OMIDVAR</b>	Senior Expert, Responsible for Strategic Studies, Research & Technology Department, National Iranian Gas Company, Iran	<b>Dr. Rachid MRABET</b>	Senior Scientist, Project Manager. Director of the Regional Centre of Agronomic Research of Tangier, National Institute of Agronomic Research (INRA), Morocco
<b>Dr. H. NIKOLOPOULOU</b>	Professor, Lille III University, and Science Policy Advisor, North-South Research Centre for Social Sciences (NRCS), France	<b>Dr. Rene KEMP</b>	Expert in Innovation for Sustainable Development, Maastricht Economic Research Institute on Innovation and Technology (MERIT), University (The Netherlands) and TNO Strategy, Technology & Policy (TNO-STB)
<b>Dr. Mohamed HADDY</b>	Professor of Environmental Law, National Institute of Settlement and Urbanism, Morocco	<b>Dr. Roland W. SCHOLZ</b>	Swiss Federal Institute of Technology Zürich, Institute for Environmental Decisions (IED), Natural and Social Science Interface (NSSI), Switzerland
<b>Dr. Sanni YAYA</b>	Professor, Faculty of Health Sciences, University of Ottawa, Canada	<b>Dr. Roohi RAKHSHAN</b>	Water Resources Research Institute, National Agricultural Research Center, Pakistan
<b>Dr. Oliver OLIVEROS</b>	Senior Officer, Agropolis Foundation, France		

# CONFERENCE BOARDS / COMITÉS DU CONGRÈS

## Honorary Board / Comité d'Honneur

High Commissioner for Water and Forests and Desertification Control / Haut Commissaire aux Eaux et Forêts et la Lutte contre la Désertification  
 President of Ibn Zohr University / Président de l'Université Ibn Zohr  
 President of the Agadir Souss-Massa-Drâa Region / Président de la Région d'Agadir Souss-Massa-Drâa

## Steering Board / Comité d'Organisation

<b>COORDINATOR :</b>	<b>Dr. Mohamed BEHNASSI</b> , Professor at Ibn Zohr University of Agadir, Head of the North-South Research Center for Social Sciences-NRCS
Dr. El Hassane El MAHDAD	Professor at Ibn Zohr University and Dean of Faculty of Law, Economics & Social Sciences of Agadir, Morocco
Dr. Mohamed Moukrim	Professor at Ibn Zohr University and Dean of the Faculty of Sciences of Agadir, Morocco
Dr. Ali EL MOUDDEN	Professor at Ibn Zohr University and Director of the High Institute of Technology of Agadir
Mr. Mohamed BOUSSAID	Technical Adviser of the GTZ, Morocco & member of NRCS
Dr. Lahoussine ABOUDRAR	Professor at Ibn Zohr University of Agadir, Morocco
Dr. Hassan ASSAKTI	Professor at Ibn Zohr University of Agadir, Morocco
Dr. Driss BOUZAFFOUR	Professor at Ibn Zohr University of Agadir. Executive Secretary of NRCS
Dr. Salma DAOUD	Professor, Plant Biotechnologies Laboratory, Ibn Zohr University of Agadir, Morocco
Dr. Ouayl CHADLI	Professor at Ibn Zohr University of Agadir, Morocco
Dr. Mohamed BOUAZIZ	Professor at Ibn Zohr University of Agadir, Morocco
Mr. Houcine BOULAOUTAQ	Professor at Ibn Zohr University of Agadir, Morocco

### USEFUL INFORMATION

- 200 abstracts submitted
- 165 accepted abstracts
- 150 final papers submitted
- 96 final papers accepted
- 40 Countries represented
- 70 research organisms
- 26 governmental organizations
- 16 Panels
- 5 Plenary Sessions
- 1 Round Table
- 2 Video-conferences
- 5 Posters
- 144 authors and Co-authors

### SOME IMPORTANT WEBSITES PROMOTING THE CONFERENCE

- World Association of Young Scientists
- Eco-Med21: Réunir les Énergies pour Faire vivre la Méditerranée
- National Center for Scientific and Technical Research, Morocco
- The Francophone information on CSR in Emergent and Developing Countries
- The Young Professional's Platform on Agricultural Research for Development (YPARD)
- e-Journal: Sustainability: Sciences, Practice, & Policy
- Center for Information and Consulting: Energy, Water, Consumption
- European Network for Global Desertification Research

- Global Forum on Food Security and Nutrition (FAO)
- Academic conferences worldwide (ConferenceAlerts)
- Mediaterrre, World Sustainable Development Information: <http://www.mediaterrre.org>
- Cdurable.info, Exchange for a Sustainable World: <http://www.cdurable.info>
- Euro-Mediterranean Information System on Know-how in the Water Sector
- Wiser Earth: Toward a Just and Sustainable World
- Science and Development Network (SciDev.net)
- Earth Forum: <http://www.earthportal.org>
- Great Lakes Bioenergy Research center
- Sustainable Cities Net
- Sustainable Livelihoods
- African Crop Science Society

## CONFERENCE PROGRAM IN BRIEF

### Thursday, Nov. 12 / Jeudi 12 nov.

- 9h00 : Opening Ceremony
- 9h35: Coffee Break / Pause-Café
- 9h50: Opening Plenary Session  
Agriculture and Rural Development at The Heart of Sustainability and Food Security
- 11h30: Panel I (*simultaneous*)  
Sustainable Agriculture And Rural Development: Call for a Paradigmatic and Policy Shift
- 11h30: Panel II (*simultaneous*)  
Climate Change and Energy as New Major Factors Redefining the World Food Equation
- 11h30: Panel III (*simultaneous*)  
Sustainable Agriculture and Food Security: Relevant Experiences
- 13H15: Lunch/Déjeuner (*for invited delegates*)
- 15h15: Panel IV (*simultaneous*)  
Energy, Sustainable Agriculture, and Food Crisis
- 15h15: Panel V (*simultaneous*)  
Sustainable Management of Water Resources as a Prerequisite for Sustainable Agriculture and Rural Development
- 15h15: Panel VI (*simultaneous*)  
Sustainable Use of Land Resource as a Potential for Sustainable Agriculture and Rural Development
- 16h45: Coffee Break / Pause-Café
- 17h15 : Plenary Session II  
Sustainable Rural and Agriculture Development: Innovative Approaches and Techniques

### Friday, Nov. 13 / Vendredi 13 nov.

- 9h00: Plenary Session III  
Governance for Food Security: Key Challenges and Relevant Debates
- 10h30: Coffee Break / Pause-Café
- 10h45: Panel VII (*simultaneous*)  
World Food Trade, Agricultural Deregulation in Light of Food Security
- 10h45: Panel VIII (*simultaneous*)  
Santé et Sécurité Alimentaire / Food Security and Health Safety
- 10h45: Panel IX (*simultaneous*)  
Sustainability and Poverty Alleviation: Challenges and Promotion Tools
- 12H45: Lunch / Déjeuner (*for invited delegates / sur invitation*)
- 14h30: Panel X (*simultaneous*)  
Recent Innovative Processes in Agricultural Production (I)
- 14h30: Panel XI (*simultaneous*)  
Recent Innovative Processes in Agricultural Production (II)
- 14h30: Panel XII (*simultaneous*)  
Animal Production: Innovative Practices for Adaptation
- 16h00: Coffee Break / Pause-Café
- 16h30 : Panel XIII (*simultaneous*)  
Sustainable Use of Land And Water Resources
- 16h30 : Panel XIV (*simultaneous*)  
Sustainability and Poverty Alleviation: Challenges and Promotion Tools

### Saturday, Nov. 14 / Samedi 14 nov.

- 9h00: Plenary Session IV  
Agriculture and Ecosystems: Building Sectoral Resilience in the Context of Climate Change and Desertification
- 10h30: Coffee Break / Pause-Café
- 10h45: Plenary Session V  
Climate Change Adaptation and Biodiversity
- 12H45: Lunch / Déjeuner (*for invited delegates / Sur invitation*)
- 14h30: Round Table  
Rio Conventions : Promoting Synergy in the Implementation Process
- 16h30: Coffee Break / Pause-Café
- 16h30: Closing Session  
Presentation of the Synthesis Report
- 20h00: Diner for Invited Delegates / Diner sur Invitation

### CONFERENCE ROOMS' CODES

#### Rooms' Names :

- Grande Salle/Big room : Dar El Beida  
Moyenne Salle/Medium room: Dades II  
Moyenne salle/Medium room: Roof Garden

#### Rooms' Codes :

- Grande Salle/Big room: DB  
Moyenne Salle/Medium room: DT  
Moyenne salle/Medium room : RG

Nov. 11, 2009 / 18h00-20h00	<b>REGISTRATION / INSCRIPTION</b>
Nov. 12, 2009 / 8h15-9h00	

9h00-9h30	<b>OPENING CEREMONY / CÉRÉMONIE D'OUVERTURE</b> ( <i>Opening speeches/ Discours d'accueil</i> )	Salle/Room: <b>DB</b>
		12 nov. morning/matin

**Abdelfdil Bennani**, *President of Ibn Zohr University*  
**Mohamed Badraoui**, *General Director of the National Institute of Agronomical Research (Morocco)*  
**Martin Tamp**, *GTZ Expert, PRONALCD Project Senior Advisor*  
**Hassane El Mahdad**, *Dean of the Faculty of Law, Economics and Social Sciences of Agadir*  
**Brahim Hafidi**, *President of the Souss Massa Drâa Region (Agadir)*  
**Mohamed Behnassi**, *Conference Coordinator*

9h35	<b>COFFEE BREAK / PAUSE-CAFÉ</b>
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9h50-11h20	<b>OPENING PLENARY SESSION / SÉANCE PLÉNIÈRE D'OUVERTURE</b>	Salle/Room: <b>DB</b>
	<b>AGRICULTURE AND RURAL DEVELOPMENT AT THE HEART OF SUSTAINABILITY AND FOOD SECURITY</b>	12 nov. morning/matin

**CHAIR / PRÉSIDENT**

**Sanni Yaya**, *Université d'Ottawa (Canada)*

**REPORTER / RAPPORTEUR**

**Finnegan Eleanor**, *Graduate Program in Religion and Nature, Department of Religion, University of Florida (USA)*  
**Manel Jmal Gargouri**, *Faculté des Sciences Économiques et de Gestion-Sfax (Tunisie)*

**SPEAKERS / CONFÉRENCIERS**

- **A New Conceptual Framework for Assessing Rural Development Performance: Sustainability of Scale, Scope, and Integration**  
**Kiyotada Hayashi**, *National Agriculture and Food Research Organization (Japan)*
- **Le métabolisme du développement rural durable. Un aperçu holistique**  
**M. Azzedine Mekouar**, *Conseiller Scientifique du NRCS, Université Hassan II-Ain Chôck de Casablanca (Maroc)*
- **Policies for Sustainable Agricultural Production and Consumption**  
**Joyce D'silva**, *Ambassador, Compassion In World Farming (United Kingdom)*

**DISCUSSION**



11h30-13h00	<b>PANEL I</b> ( <i>simultaneous / en simultan��t��</i> )	Salle/Room : <b>DB</b>
	<b>SUSTAINABLE AGRICULTURE AND RURAL DEVELOPMENT: CALL FOR A PARADIGMATIC AND POLICY SHIFT</b>	12 nov. morning/ matin
<b>MODERATOR / MOD��RATEUR</b>		
<b>Mahmoud A. Abdelfattah</b> , <i>International Center for Biosaline Agriculture (United Arab Emirates)</i>		
<b>REPORTER / RAPPORTEUR</b>		
<b>Zeljka Fistrek</b> , <i>Lund University (Sweden)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li><b>The Survivor Risk Behavior of Peasants</b> <b>Siabato Flavio Pinto</b>, <i>Institute for International Management, University of Flensburg (Germany)</i></li> <li><b>A Knowledge Approach to Sustainable Agriculture</b> <b>Jes��s Rosales Carre��n, Ren�� Jorna, Niels Faber, Rob van Haren</b>, <i>University of Groningen, Faculty of Economic and Business (The Netherlands)</i></li> <li><b>Cultivating Faith: The Relationship Between Islam and Sustainable Agriculture in Rural Communities of American Muslims</b> <b>Finnegan Eleanor</b>, <i>Graduate Program in Religion and Nature, Department of Religion, University of Florida (USA)</i></li> <li><b>Significance of Sustainable Agriculture in the maintenance of Agro-ecosystem for Rural Development and Food Security</b> (<i>video-conference</i>) <b>Rakesh Singh Sengar, Kalpana Sengar and Ankush InanniG</b>, <i>Sardar Vallabh Bhai Patel University of Agriculture and Technology (India)</i></li> </ul>		
<b>DISCUSSION</b>		

11h30-13h00	<b>PANEL II</b> ( <i>simultaneous / en simultan��t��</i> )	Salle/Room : <b>DT</b>
	<b>CLIMATE CHANGE AND ENERGY AS NEW MAJOR FACTORS REDEFINING THE WORLD FOOD EQUATION</b>	12 nov. morning/ matin
<b>MODERATOR / MOD��RATEUR</b>		
<b>Noorka Ijaz Rasool</b> , <i>University College of Agriculture, University of Sargodha (Pakistan)</i>		
<b>REPORTER / RAPPORTEUR</b>		
<b>Sandra Fernandez</b> , <i>Centro Argentino de Ingenieros Agronomos and Consejo Profesional de Ingenieros Gronomos de Argentina (Argentina)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li><b>Cutting Emissions and Doubling Food Production. Incompatible Targets?</b> <b>Phillip Bennion</b>, <i>Home Grown Cereals Authority-HGCA (England)</i></li> <li><b>Impacts of Climate Change on Food Security in the Drier Zones of India</b> <b>Shadananan Nair</b>, <i>Nansen Environmental Research Centre (India)</i></li> <li><b>S��curit�� alimentaire et changement climatique: Une question de sant�� publique et de sant�� ��conomique</b> <b>Sanni Yaya &amp; Mohamed Behnassi</b>, <i>Universit�� d'Ottawa (Canada)</i></li> <li><b>Climate Change, Seasonality and Hunger: The South Asian Experience</b> <b>Ramachandran Nira</b>, <i>Director of Research and Training, Earth Care Foundation (India)</i></li> </ul>		
<b>DISCUSSION</b>		

11h30-13h00	<b>PANEL III</b> (simultaneous / en simultanéité)	Salle/Room : <b>RG</b>
	<b>SUSTAINABLE AGRICULTURE AND FOOD SECURITY: RELEVANT EXPERIENCES</b>	12 nov. morning/matin

**MODERATOR / MODÉRATEUR**

**Peter Karácsony**, Faculty of Agricultural and Food Sciences, University of West (Hungary)

**REPORTER / RAPPORTEUR**

**Nina Srot**, Lund University (Sweden)

**DISCUSSANTS / DISCUTANTS**

- **Changes in Agricultural Landscape and Food Production Pattern: Some Ecological Implications and Policy Options in the Agrarian Economy of Indian Punjab**  
**Davinder Kumar Grover**, Director of Agro-Economic Research Centre, Department of Economics & Sociology, Punjab Agricultural University, Ludhiana (India)
- **The Development of Local Public Policy and Model of Organic Farming in the North of Thailand**  
**Chedsada Mingchai & Pradtana Yossuck**, Faculty of Agriculture, Uttaradit Rajabhat University (Thailand)
- **Significance of Vegetable Farming as a Strategy to Enhance Household Food Security in Communal Areas of Zimbabwe**  
**Thomas Marambanyika**, Midlands State University (Zimbabwe)
- **Un contrat social pour une agriculture durable dans l'espace local ? Repères théoriques et pratiques d'une économie plus solidaire**  
**Josiane Stoessel-Ritz**, Université de Haute-Alsace, GSPE (France)

**DISCUSSION**

13H15	<b>LUNCH / DÉJEUNER</b> (for invited delegates / sur invitation)	
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15h15-16h45	<b>PANEL IV</b> (simultaneous / en simultanéité)	Salle/Room : <b>DB</b>
	<b>ENERGY, SUSTAINABLE AGRICULTURE, AND FOOD CRISIS</b>	12 nov. afternoon/après-midi

**MODERATOR / MODÉRATEUR**

**Diagne Binetou**, Knowledge Sharing Officer AfricaAdapt, Institute of Development and Studies (United Kingdom)

**REPORTER / RAPPORTEUR**

**Tim Taylor**, Lund University (Sweden)

**DISCUSSANTS / DISCUTANTS**

- **The Role of Biofuels in the Sustainability of the Environment**  
**Peter Karácsony, Anzelm Kiss, and József Orbán**, Faculty of Agricultural and Food Sciences, University of West (Hungary)
- **Éthanol, crise alimentaire et sécurité internationale : Le cas des États-Unis**  
**Gilles Vandal**, École de politique appliquée, Université de Sherbrooke, Québec (Canada)
- **Energy Efficiency, Methane Output, Required Carbon Sequestration Area and Water Productivity in Extensive and Semi-Intensive Beef Production in South America - A Comparison of Ecological Currencies**  
**H. Juergen Schwartz, Feldkamp Cristian Rodolfo, Bungenstab Davi Jose**, Faculty of Agriculture and Horticulture, Humboldt-University of Berlin (Germany)
- **Énergie des co-produits de l'agriculture par la voie biogaz – Exemples de l'agriculture organique allemande comparée à la production de maïs à fins énergétiques**  
**Arno Deuker, Walter Stinner, Günter Leithold**, Université Justus-Liebig, Agriculture Organique (Allemagne)

## DISCUSSION

15h15-16h45	<b>PANEL V</b> ( <i>simultaneous / en simultan��t��</i> ) <b>SUSTAINABLE MANAGEMENT OF WATER RESOURCES AS A PREREQUISITE FOR SUSTAINABLE AGRICULTURE AND RURAL DEVELOPMENT</b>	Salle/Room : <b>DT</b> 12 nov. afternoon/apr��s-midi
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### MODERATOR / MOD  RATEUR

**Maybelle Gaballah**, *Water Relations & Field Irrigation Department, National Research Centre, Cairo (Egypt)*

### REPORTER / RAPPORTEUR

**Jane Shepherd**, *School of Architecture & Design, RMIT University, Melbourne (Australia)*

### DISCUSSANTS / DISCUTANTS

- **Community Participation in Water Resource Management: An Integrated Approach for Rural Development and Water-Borne Diseases Prevention**  
**Debora Di Dio**, *Macquarie University, Sydney (Australia)*
- **Sustainable Water Management for Irrigated Rice Production**  
**Kruamas Smakgahn**, *Faculty of Liberal Arts and Science, Kasetsart University Kamphaeng Saen Campus (Thailand)*
- **Reduction of Water Losses by Use of Alternative Irrigation Techniques in the Aral Sea Drainage Basin**  
**Rebecka T  rnqvist & Jerker Jarsj  **, *Department of Physical Geography and Quaternary Geology, Stockholm University (Sweden)*
- **Sustainable Rural Development and Participatory Approach by On-Farm Water Management Techniques**  
**Noorka Ijaz Rasool, Muhammad Afzal, Saima Sadaf, Muhammad Ashraff**, *University College of Agriculture, University of Sargodha (Pakistan)*

## DISCUSSION

15h15-16h45	<b>PANEL VI</b> ( <i>simultaneous / en simultan��t��</i> ) <b>SUSTAINABLE USE OF LAND RESOURCE AS A POTENTIAL FOR SUSTAINABLE AGRICULTURE AND RURAL DEVELOPMENT</b>	Salle/Room : <b>RG</b> 12 nov. afternoon/apr��s-midi
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### MODERATOR / MOD  RATEUR

**Joyce D'silva**, *Ambassador, Compassion In World Farming (United Kingdom)*

### REPORTER / RAPPORTEUR

**Sandra Fernandez**, *Centro Argentino de Ingenieros Agronomos and Consejo Profesional de Ingenieros Agronomos de Argentina (Argentina)*

### DISCUSSANTS / DISCUTANTS

- **Turning Adversity into Advantage for Food Security Through Improving Soil Quality of Farmers Fields for Better Agriculture Services**  
**Shabbir Shahid A. & Mahmoud A. Abdelfattah**, *International Center for Biosaline Agriculture (United Arab Emirates)*
- **Assessment of Land Degradation for Sustainable Use of Soil Resources in Abu Dhabi, United Arab Emirates**  
**Mahmoud Ali Abdelfattah & Shabbir A. Shahid**, *Environment Agency Abu Dhabi (United Arab Emirates)*
- **Reforestation - Quality Improvement of Contaminated Mining Soil**  
**Olaf Pollmann & Leon van Rensburg**, *School of Environmental Science and Development, North-West University (South Africa)*
- **A policy framework for Sustainable Utilisation of Farmland for Waterberg District Municipality in South Africa**  
**Charles Nhemachena, James Chakwizira, Mac Mashiri, and Sipho Dube**, *Council for Scientific & Industrial Research, Built Environment Unit (South Africa)*



## DISCUSSION

16h45

COFFEE BREAK / PAUSE-CAFÉ

17h15-18h45

### PLENARY SESSION II / SÉANCE PLÉNIÈRE II

#### SUSTAINABLE RURAL AND AGRICULTURE DEVELOPMENT: INNOVATIVE APPROACHES AND TECHNIQUES

Salle/Room : DB

12 nov. afternoon/après-midi

#### CHAIR / PRÉSIDENT

**Siabato Flavio Pinto**, *Institute for International Management, University of Flensburg (Germany)*

#### REPORTER / RAPPORTEUR

**Debora Di Dio**, *Macquarie University, Sydney (Australia)*

#### SPEAKERS / CONFÉRENCIERS

- **"L'approche terroir", une compétence à viser dans une perspective de développement agricole durable**  
**Philippe Prévost & Patrice Lallemand**, *Montpellier SupAgro, Centre International d'Études Supérieures en Sciences Agronomiques (France)*
- **Transcultural Gardens. A Proposal for the Exploitation of Urban Voids as Intensively Productive Land and as a Method of Urbanization of Minorities. Case Studies that Demonstrate the Design Tools and the Managing Methodology**  
**Eleni Karanastasi, Architectural and Urban Design**, *Department of Architecture, Technical University of Crete (Greece)*
- **Center of Agro-Ecologic Production and Education, Santo Domingo de Rondon: A Sustainable Project for Regional Development, Education and Production**  
**Arno Deuker & Parzival Wind**, *Justus-Liebig University, Organic Agriculture (Germany)*
- **New Curriculum Reform for Sustainable Agricultural Knowledge for Development: The Case of Ibn Zohr University, Morocco**  
**Salma Daoud**, *Faculty of Sciences, Ibn Zohr University (Morocco)*

## DISCUSSION

9h00-10h30

### PLENARY SESSION III / SÉANCE PLÉNIÈRE III

#### GOVERNANCE FOR FOOD SECURITY: KEY CHALLENGES AND RELEVANT DEBATES

Salle/Room : DB

13 nov. morning/matin

#### CHAIR / PRÉSIDENT

**Philippe Prévost**, *Montpellier SupAgro, Centre International d'Études Supérieures en Sciences Agronomiques (France)*

#### REPORTER / RAPPORTEUR

**Claire Baldin**, *GREDEG Unité Mixte de Recherche du CNRS, Université de Nice Sophia-Antipolis (France)*

#### SPEAKERS / CONFÉRENCIERS

- **Global Governance for Food Security and the Right to Food: Challenges and Unresolved Issues**  
**Mohamed Behnassi & Sanni Yaya**, *Ibn Zohr University and North-South Center for Social Sciences-NRCS (Morocco)*
- **Droits humains, légitimité démocratique et praxis de responsabilité au cœur de la gouvernance alimentaire et agricole durable**  
**Hélène Nikolopoulou**, *NRCS et Université Lille III (France)*
- **18,000 Children Die of Starvation Everyday: Cannot we Save Them?**  
**Molla Md. Sirajul Islam**, *Honorary Executive Director of Sunder Jiban (Bangladesh)*
- **The Self-Reliant Country: Sustainable Agricultural Policy for Australia ? (Video-conference)**  
**Jane Shepherd**, *School of Architecture & Design, RMIT University, Melbourne (Australia)*

## DISCUSSION

10h30 COFFEE BREAK / PAUSE-CAFÉ

10h45-12h15 **PANEL VII** (*simultaneous / en simultanéité*)  
**WORLD FOOD TRADE, AGRICULTURAL DEREGULATION IN LIGHT OF FOOD SECURITY** Salle/Room : **DB**  
13 nov. morning/matin

**MODERATOR / MODÉRATEUR**

**Rachid Boutti**, *École Nationale de Commerce et de Gestion-ENCG (Maroc)*

**REPORTER / RAPPORTEUR**

**Houcine Boulaoutaq**, *Université Ibn Zohr (Maroc)*

**DISCUSSANTS / DISCUTANTS**

- **Les effets des subventions agricoles aux exportations et des technologies de l'agriculture de précision sur les pays de l'Afrique Subsaharienne. Une analyse comparative en termes de commerce international stratégique**  
**Claire Baldin**, *GREDEG Unité Mixte de Recherche du CNRS, Université de Nice Sophia-Antipolis (France)*
- **India's Global Seafood Trade, Sustainability Issues and Social Concerns**  
**Asopa Vijendra**, *Indian Institute of Management (India)*
- **Estimating the Libyan Import Demand Function of Vegetable Oils During the Period (1980-2007)**  
**Ali Moussa Mohamed Salem**, *Agri cultural Economics Department, Agriculture Faculty, Alfatah University (Libya)*
- **Le secteur agricole face aux défis énergétiques : Cas des pays Magrébins**  
**Manel Jmal Gargouri & Adnen Chockri**, *Faculté des Sciences Économiques et de Gestion-Sfax (Tunisie)*
- **African Agriculture at Crossroads: Balancing the Needs of Increased Productivity and the Challenges of Sustainability. The Case of Fadama Agriculture in Semi-Arid Northern Nigeria**  
**Dan-Azumi Jake & Robert Biel**, *Development Planning Unit of the University College of London (Nigeria)*

**DISCUSSION**

10h45-12h15 **PANEL VIII** (*simultaneous / en simultanéité*)  
**FOOD AND ENVIRONMENTAL SECURITY BY REGIONS** Salle/Room : **DT**  
13 nov. morning/matin

**MODERATOR / MODÉRATEUR**

**Arno Deuker**, *Justus-Liebig University, Organic Agriculture (Germany)*

**REPORTER / RAPPORTEUR**

**Joseph P. Assi Kaudjhis**, *Université de Bouake (Côte d'Ivoire)*

**DISCUSSANTS / DISCUTANTS**

- **Food Security Key Issues for an Emerging MENA Priority**  
**Amira El Adawi, Nabih Maroun, George Atalla, Saïda El Harakany, Tarek Nassar**, *Booz & Company (Lebanon)*
- **Les défis du fossé alimentaire dans le monde arabe et les moyens d'action (In Arabic / En arabe)**  
**Hind Mehdaoui, Rafika Sebbagh, Soumia Zirar**, *Faculté de Sciences Économiques, Université de Tlemcen (Algérie)*
- **Sécurité alimentaire et développement durable en Algérie (Poster / Communication affichée)**  
**AISSAOUI Chadli**, *Institut d'Agronomie, Centre Universitaire d'El-Tarf (Algérie)*
- **The Environmental Challenges and its Security Implications for South Asia**  
**Abhaya K. Singh**, *Dept. of Defence & Strategic Studies, Research and Post Graduate Department, Saket College Ayodhya, Dr.R.M.L. Awadh University, Faizabad (India)*

## DISCUSSION

10h45-12h15	<b>PANEL IX</b> ( <i>simultaneous / en simultan��t��</i> )	Salle/Room : <b>RG</b>
	<b>SANT�� ET S��CURIT�� ALIMENTAIRE / FOOD SECURITY AND HEALTH SAFETY</b>	13 nov. morning/matin

### MODERATOR / MOD  RATEUR

**Patrice Lallemand**, Montpellier SupAgro, Centre International d'  tudes Sup  rieures en Sciences Agronomiques (France)

### REPORTER / RAPPORTEUR

**Assia Zaim**, Laboratoire de Biotechnologie Microbienne, Facult   des Sciences et Techniques de F  z (Maroc)

### DISCUSSANTS / DISCUTANTS

- **Risk Communication at the Hungarian Guar-Gum Scandal**  
**Gyula Kasza, Judit Szigeti, Szilard Podrutzsik, Kriszti  n Keszthelyi**, Hungarian Ministry of Agriculture and Rural Development, Corvinus University of Budapest (Hungary)
- **Perception of the Problems in Farming Community in District Hyderabad**  
**Mari Jan and Shahzadi A. K**, Sindh Agriculture University Tandojam Pakistan (Pakistan)
- **  tude d'impact de la qualit   sur le d  veloppement des produits alimentaires au Maroc : De l'assurance qualit   au management de la s  curit   sanitaire des aliments**  
(Poster/ communication affich  e)  
**Khalid Bourma, Ali Mouden, El Habib Ait Addi, Mokhtar El Hilali**,   cole Sup  rieure de Technologie (Maroc)

## DISCUSSION

12H45	<b>LUNCH / D��JEUNER</b> ( <i>for invited delegates / sur invitation</i> )
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14h30-16h00	<b>PANEL X</b> ( <i>simultaneous / en simultan��t��</i> )	Salle/Room : <b>DB</b>
	<b>RECENT INNOVATIVE PROCESSES IN AGRICULTURAL PRODUCTION (I)</b>	13 nov. afternoon/apr��s-midi

### MODERATOR / MOD  RATEUR

**Jamaa Douch**, D  partement de Chimie, Facult   des Sciences, Universit   Ibn Zohr d'Agadir (Maroc)

### REPORTER / RAPPORTEUR

**Bernard Luyiga**, Councilor, Kampala City (Uganda)

### DISCUSSANTS / DISCUTANTS

- **Study of Nitrogen Fixation and Nodulation in Annual Medic (*Medicago rigidula*) in Inoculation with Foreign and Inside Root Symbiotic Bacteria**  
**Esmail Nabizadeh & Hosain Haidary sharif Abad**, Plant Physiology, Islamic Azad University of Mahabad (Iran)
- **Inventaire et   valuation des souches symbiotiques chez *H  dysarum Coronarium* I. Dans les sols d'Alg  rie, essais d'introduction, avec inoculation, en zones semi arides de l'Ouest alg  rien**  
**Abdelhakim Ouzzane**, Laboratoire des Sciences du Sol Station de Recherche Mehdi Boualem Baraki, Institut National de Recherche Agronomique-INRA (Alg  rie)
- **Effect of Salinity on Growth and Ionic Composition in *Chenopodium Quinoa***  
**Brakez Meryem, El Brik Khalid, Salma Daoud, Harrouni Moulay Cherif**, Laboratory of plant Biotechnologies, Faculty of Sciences, Ibn Zohr University (Morocco)
- **Organic Farming, Linkages with Food Security and Bonded Labor**  
**Chandio Rafiq Ahmed**, Department of Economics, University of Sindh (Pakistan)

## DISCUSSION

14h30-16h00	<b>PANEL XI</b> ( <i>simultaneous / en simultanément</i> )	Salle/Room : <b>RG</b>
	<b>RECENT INNOVATIVE PROCESSES IN AGRICULTURAL PRODUCTION (II)</b>	13 nov. Afternoon/après-midi
<b>MODERATOR / MODÉRATEUR</b>		
Olaf Pollmann, <i>School of Environmental Science and Development, North-West University (South Africa)</i>		
<b>REPORTER / RAPPORTEUR</b>		
Nagy Adrián, <i>Faculty of Agricultural Economics and Rural Development, University of Debrecen (Hungary)</i> Brakez Meryem, <i>Laboratory of plant Biotechnologies, Faculty of Sciences, Ibn Zohr University (Morocco)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>Acceptabilité de la lutte étagée ciblée comme mode de protection phytosanitaire du coton dans la zone pilote de CmiA au Bénin</b> Guy Nouatin &amp; Otchoun, B., <i>Faculté d'Agronomie, Université de Parakou (Benin)</i></li> <li>• <b>Évaluation de l'activité antiacridienne de l'huile essentielle de la plante médicinale « Artemisia herba alba » du Maroc</b> Assia Zaim, Lahsen El Ghadraoui, Abdellah Farah, <i>Laboratoire de Biotechnologie Microbienne, Faculté des Sciences et Techniques de Fèz (Maroc)</i></li> <li>• <b>Imitating Nature to Enrich Waste with New Values and Use it as a New Resource (Video-conference)</b> Clara Ceppa, <i>Department of Architectural and Industrial Design – Politecnico di Torino (Italy)</i></li> <li>• <b>Factors Related to the Measure for Avian Influenza Control and Prevention in Uttaradit Province, Thailand</b> Chedsada Mingchai, <i>Faculty of Agriculture, Uttaradit Rajabhat University (Thailand)</i></li> </ul>		
<b>DISCUSSION</b>		

14h30-16h00	<b>PANEL XII</b> ( <i>simultaneous / en simultanément</i> )	Salle/Room : <b>DT</b>
	<b>ANIMAL PRODUCTION: INNOVATIVE PRACTICES FOR ADAPTATION</b>	13 nov. afternoon/après-midi
<b>MODERATOR / MODÉRATEUR</b>		
András Nábrádi, <i>Dean of the Faculty of Agricultural Economics and Rural Development, University of Debrecen (Hungary)</i>		
<b>REPORTER / RAPPORTEUR</b>		
Rebecka Törnqvist, <i>Department of Physical Geography and Quaternary Geology, Stockholm University (Sweden)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>L'élevage camelin en Algérie : Quel scénario pour quel avenir ?</b> Abdelkader Adamou, <i>Laboratoire de Protection des Écosystèmes dans les Zones Arides et Semi arides – Université de Ouargla (Algérie)</i></li> <li>• <b>Animal Husbandry in Focus of Sustainability</b> András Nábrádi, Hajnalka Madai, and Nagy Adrián, <i>Dean of the Faculty of Agricultural Economics and Rural Development, University of Debrecen (Hungary)</i></li> <li>• <b>Effect of Urea Treated Sorghum Stover Supplemented with Local Protein Sources on the Performance of Sheep</b> Fithawi Mehari Gebremariam &amp; Dr. Goitom Asghedom, <i>Department of Animal Sciences, Hamelmalo Agricultural College (Eritrea)</i></li> <li>• <b>Comparative Feeding Value of Halophyte as Alternative Animal Feed for Small Ruminants in Eritrea</b> Tesfa Kalab Negash &amp; Fithawi Mehari, <i>Department of Animal Sciences, Hamelmalo Agricultural College (Eritrea)</i></li> <li>• <b>Comparaison du rendement en carcasse chez deux populations camelines Sahraoui et Targui (Poster/communication affichée)- in Arabic / en arabe</b> Babelhadj Baaïssa, <i>Inspection vétérinaire – DSA Ouargla (Algérie)</i></li> </ul>		
<b>DISCUSSION</b>		

16h00	COFFEE BREAK / PAUSE-CAFÉ	
16h30-18h00	<b>PANEL XIII</b> ( <i>simultaneous / en simultanément</i> ) <b>SUSTAINABLE USE OF LAND AND WATER RESOURCES</b>	Salle/Room : <b>DB</b> 13 nov. Afternoon/après-midi
<b>MODERATOR / MODÉRATEUR</b> <b>Shabbir Shahid A.</b> , <i>International Center for Biosaline Agriculture (United Arab Emirates)</i>		
<b>REPORTER / RAPPORTEUR</b> <b>Bernard Luyiga</b> , <i>Councilor, Kampala City (Uganda)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>Development of New Technological Approach to Mitigate Salinization</b> <b>Gaballah Maybelle, Mostafa Rady, Abu Bakr Mahmoud Gomaa, Magdy Abdel Hameid</b>, <i>Water Relations &amp; Field Irrigation Department, National Research Centre (Egypt)</i></li> <li>• <b>Importance stratégique de l'eau virtuelle des céréales en Algérie. Constat et perspectives</b> <b>Brahim Mouhouche &amp; Souad Lani</b>, <i>École Nationale Supérieure d'Agronomie-ENSA (Algérie)</i></li> <li>• <b>Effet de la bentonite sur les sols sableux des régions arides, étude de comportement d'une association blé pois chiche</b> <b>Houcine Abdelhakim Reguieg Yssaad et Moulay Belkhodja</b>, <i>Laboratoire de Biologie, Faculté des Sciences, Université de Mostaganem (Algérie)</i></li> </ul>		
<b>DISCUSSION</b>		
16h30-18h00	<b>PANEL XIV</b> ( <i>simultaneous / en simultanément</i> ) <b>SUSTAINABILITY AND POVERTY ALLEVIATION: CHALLENGES AND PROMOTION TOOLS</b>	Salle/Room : <b>RG</b> 13 nov. Afternoon/après-midi
<b>MODERATOR / MODÉRATEUR</b> <b>Josiane Stoessel-Ritz</b> , <i>Université de Haute-Alsace, GSPE (France)</i>		
<b>REPORTER / RAPPORTEUR</b> <b>Manel Jmal Gargouri</b> , <i>Faculté des Sciences Économiques et de Gestion-Sfax (Tunisie)</i>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>Développement Durable et Lutte contre la Pauvreté. Cas du projet de gestion des ressources naturelles dans le Gouvernorat de Médenine, Tunisie</b> <b>Riadh Bechir &amp; Saïd Miloud Dhifallah</b>, <i>Faculté des Sciences Économiques et de Gestion de Sfax (Tunisie)</i></li> <li>• <b>Plan de gestion environnementale et de sauvegarde sociale (PGESS) sur le projet de création de nouvelle aire protégée. Ambohitr'antsingy montagne des français</b> <b>Nenana Tsiory Andriamahefa Harisoa</b>, <i>Groupe TSIORY (Madagascar)</i></li> <li>• <b>Fondements idéologiques et forme juridique de l'entreprise coopérative : Atouts d'un acteur clé du développement agricole durable</b> <b>Hassan Assakti</b>, <i>Faculté des Sciences Juridiques, Économiques et Sociales, Université Ibn Zohr d'Agadir (Maroc)</i></li> <li>• <b>Une innovation technique dans l'aménagement de l'espace rural en Côte d'Ivoire : La rizipisciculture dans la Sous-préfecture de Méagui (Région du Bas-Sassandra)</b> <b>Joseph P. Assi Kaudjhis</b>, <i>Université de Bouake (Côte d'Ivoire)</i></li> </ul>		
<b>DISCUSSION</b>		
9h00-10h30	<b>PLENARY SESSION IV/ SÉANCE PLÉNIÈRE IV</b> <b>AGRICULTURE AND ECOSYSTEMS: BUILDING SECTORAL RESILIENCE IN THE CONTEXT OF CLIMATE CHANGE AND DESERTIFICATION</b>	Salle/Room : <b>DB</b> 14 nov. Morning/matin

**CHAIR / PRÉSIDENT**

**Martin Tamp**, German Technical Cooperation-GTZ Expert, PRONALCD Project Senior Advisor

**REPORTER / RAPPORTEUR**

**Mohamed Boussaid**, Technical Adviser of the GTZ, Morocco

**SPEAKERS / CONFÉRENCIERS**

- **Vulnérabilité et adaptation du milieu naturel de la Commune rurale de Boudinar aux évènements climatiques extrêmes**  
**Sallak B., Khattabi A., Sabir M., Belghazi B.** *École Nationale Forestière des Ingénieurs (Maroc)*
- **Place du changement climatique dans le programme de lutte contre la désertification au Maroc**  
**Aziz Afker**, *Direction Régionale des Eaux et Forêts d'Agadir (Maroc)*
- **Perspective d'adaptation de l'Agriculture tunisienne au CC : Étude de cas**  
**Ali Aabad**, *German Technical Cooperation-GTZ (Tunisie)*

**DISCUSSION**

10h30

**COFFEE BREAK / PAUSE-CAFÉ**

10h45-12h30

**PLENARY SESSION V/ SÉANCE PLÉNIÈRE V**Salle/Room : **DB****CLIMATE CHANGE ADAPTATION AND BIODIVERSITY**

14 nov. Morning/matin

**MODERATOR / MODÉRATEUR**

**Martin Tamp**, German Technical Cooperation-GTZ Expert, PRONALCD Project Senior Advisor

**REPORTER / RAPPORTEUR**

**Jesús Rosales Carreón**, *University of Groningen, Faculty of Economic and Business (The Netherlands)*

**DISCUSSANTS / DISCUTANTS**

- **Liens entre diversité biologique et changements climatiques**  
**Ahmed Skim**, *Département de l'Environnement, Ministère de l'Énergie, des Mines, de l'Eau et de l'Environnement (Maroc)*
- **Knowledge Sharing for Climate Change Adaptation in Africa : Opportunities and Challenges**  
**Diagne Binetou & Blane Harvey**, *Knowledge Sharing Officer AfricaAdapt, Institute of Development and Studies (United Kingdom)*
- **La vulnérabilité des écosystèmes de l'embouchure de la Moulouya aux impacts des changements climatiques (élévation du niveau de la mer)**  
**Zine El Abidine, A., Khattabi A., Ezzahiri M. & Bellaghmouch F.Z.**, *École Nationale Forestière des Ingénieurs (Maroc)*
- **Les enjeux du Plan Maroc Vert en matière de développement durable**  
**Abdelkader Allali**, *Ministère de l'Agriculture et de la Pêche Maritime (Maroc)*
- **Rôle de l'Agriculture Pratiquée par la Femme Rurale de Kabylie (Algérie) dans l'atténuation du Changement Climatique**  
**Nadia Moali-Grine, Kahina Amrouche et Yamina Loudia**, *Laboratoire d'Écologie et Environnement, Université de Bejaia (Algérie)*

**DISCUSSION**

12H45

**LUNCH / DÉJEUNER** (for invited delegates / Sur invitation)



14h30-16h00	<b>ROUND TABLE / TABLE RONDE</b>	Salle/Room: <b>DB</b>
	<b>RIO CONVENTIONS : PROMOTING SYNERGY IN THE IMPLEMENTATION PROCESS</b>	14 nov. Morning/matin
<b>CHAIR / PRÉSIDENT</b>		
<b>Martin Tamp</b> , German Technical Cooperation-GTZ Expert, PRONALCD Project Senior Advisor		
<b>REPORTER / RAPPORTEUR</b>		
<b>Nadia Moali-Grine, Kahina Amrouche et Yamina Loudia, Laboratoire d'Écologie et Environnement, Université de Bejaia (Algérie)</b>		
<b>DISCUSSANTS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>Mohamed Nbou</b>, Point Focal de la Convention sur les Changements Climatiques, Département de l'Env., Ministère de l'Énergie, des Mines, de l'Eau et de l'Env. (Maroc)</li> <li>• <b>Ahmed Skim</b>, Point Focal de la Convention sur la Diversité Biologique, Département de l'Environnement, Ministère de l'Énergie, des Mines, de l'Eau et de l'Env. (Maroc)</li> <li>• <b>Youssef Jaouhari</b>, Responsable du Volet Lutte Contre la Désertification, Province d'Inezgane Ait Melloul (Maroc)</li> </ul>		
<b>DISCUSSION</b>		

16h00	<b>COFFEE BREAK / PAUSE-CAFÉ</b>
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16h30-17h45	<b>CLOSING SESSION / SÉANCE DE CLÔTURE</b>	Salle/Room : <b>DB</b>
	<b>PRESENTATION OF THE SYNTHESIS REPORT / PRÉSENTATION DU RAPPORT DE SYNTHÈSE</b>	14 nov. Afternoon/après-midi
<b>CHAIR / PRÉSIDENT</b>		
<b>Mohamed Behnassi</b> , Ibn Zohr University and North-South Center for Social Sciences-NRCS (Morocco)		
<b>SPEAKERS / DISCUTANTS</b>		
<ul style="list-style-type: none"> <li>• <b>Shabbir Shahid A.</b>, International Center for Biosaline Agriculture (United Arab Emirates)</li> <li>• <b>M. Azzedine Mekouar</b>, Conseiller Scientifique du NRCS, Université Hassan II-Ain Chôck de Casablanca (Maroc)</li> <li>• <b>Joyce D'silva</b>, Ambassador, Compassion In World Farming (United Kingdom)</li> <li>• <b>Phillip Bennion</b>, Home Grown Cereals Authority-HGCA (England)</li> <li>• <b>Martin Tamp</b>, German Technical Cooperation-GTZ Expert, PRONALCD Project Senior Advisor</li> </ul>		

20h00	<b>Diner (for invited delegates / Sur invitation)</b>
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## Organizers

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