



Athens Institute for Education and Research
9th Annual International Symposium on Agricultural Research
11-14 July 2016, Athens, Greece

Organized by the [Agriculture Research Unit](#) of ATINER
sponsored by the [Athens Journal of Sciences](#)
[Scientific & Organizing Committee](#)



Conference Venue: [Titania Hotel](#), 52 Panepistimiou Street, 10678 Athens, Greece

Monday 11 July 2016

(all sessions include 10 minutes break)

08:00-08:30 Registration and Refreshments

08:30-09:00 Welcome & Opening Address (ROOM B--Mezzanine Floor)

- Gregory T. Papanikos, President, ATINER.
- George Poulos, Vice-President of Research, ATINER & Emeritus Professor, University of South Africa, South Africa.

09:00-10:30 Session I (ROOM B--Mezzanine Floor): Environmental and Ecological Issues I

Chair: George Poulos, Vice-President of Research, ATINER.

1. Derya Esen, Professor, Head of the Department of Forest Engineering, Düzce University, Turkey. Chemical Silviculture in the Mesic Forests of Black Sea Region of Turkey: A Review.
2. *[Teresa Cristina Tarle Pissarra](#), Professor, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil, Anildo Monteiro Caldas, Professor, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil, Paulo Bonini Boneti, Graduate Student, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil, Marcelo Zanata, Graduate Student, Instituto Florestal, Brazil & Renata Cristina Araujo Costa, Graduate Student, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil. Spatial Variability of Ca and Mg in Pine Areas of the Forest Institute of Batatais – SP.
3. *[Piotr Nowicki](#), Associate Professor, Jagiellonian University, Poland, Terezie Bubová, Ph.D. Student, Czech University of Life Sciences, Czech Republic & Vladimír Vrabec, Research Assistant, Czech University of Life Sciences, Czech Republic. How Can Proper Land Management Support the Conservation of European Butterflies?
4. Svetlana Pugach, Associate Professor, Kursk State University, Russia. Economic Mechanism of Agro-Industrial Complex Sustainable Development.
5. *[Asbjorn Bergheim](#), Senior Researcher, IRIS – International Research Institute of Stavanger, Norway & Arve Nilsen, Veterinarian / Scientist, Norwegian Veterinary Institute, Norway. Production of Atlantic Salmon in Floating, Closed Cages – Is It Possible to Achieve Both Improved Fish Health and a Reduced Environmental Impact? (AQC)

<p>10:30-12:00 Session II (ROOM B--Mezzanine Floor): Farming Techniques, Plant Growth and Crop Production I</p>	<p>10:30-12:00 Session III (ROOM C--Mezzanine Floor): Water Pollution and Water Management I</p>
<p>Chair: *Teresa Cristina Tarle Pissarra, Professor, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil.</p>	<p>Chair: *Asbjorn Bergheim, Senior Researcher, IRIS – International Research Institute of Stavanger, Norway.</p>
<ol style="list-style-type: none"> 1. <u>Juan-Enrique Rodriguez-Perez</u>, Professor, Universidad Autonoma Chapingo, Mexico, Zamny Hernandez-Gonzalez, Graduate Student, Universidad Autonoma Chapingo, Mexico, Jaime Sahagun-Castellanos, Professor, Universidad Autonoma Chapingo, Mexico, Alejandro F. Barrientos-Priego, Professor, Universidad Autonoma Chapingo, Mexico, Joel Pineda-Pineda, Professor, Universidad Autonoma Chapingo, Mexico & Juan Martinez-Solis, Professor, Universidad Autonoma Chapingo, Mexico. Xilem Anatomic Changes in Grafted Tomato. 2. <u>Jaime Sahagun-Castellanos</u>, Professor, Universidad Autonoma Chapingo, Mexico, Juan-Enrique Rodriguez-Perez, Professor, Universidad Autonoma Chapingo, Mexico & Alejandro Ibarra-Sanchez, Graduate Student, Universidad Autonoma Chapingo, Mexico. Inbreeding of the Synthetics derived from Three-Way Line Maize Hybrids. 3. *<u>Cezary Sempruch</u>, Associate Professor, Siedlce University of Natural Sciences and Humanities, Poland, Golan Katarzyna, Assistant Professor, University of Life Sciences in Lublin, Poland, Gorska-Drabik Edyta, Assistant Professor, University of Life Sciences in Lublin, Poland, Czerniewicz PaweL, Siedlce University of Natural Sciences and Humanities, Poland, Lagowska Bozena, Professor, University of Life Sciences in Lublin, Poland, Kot Izabela, University of Life Sciences in Lublin, Poland, Kmiec Katarzyna, University of Life Sciences in Lublin, Poland, Magierowicz Klaudia, University of Life Sciences in Lublin, Poland, Leszczyński BogumiL, Professor, Siedlce University of Natural Sciences and Humanities, Poland & Marta Chwedczuk, Siedlce University of Natural Sciences and Humanities, Poland. Accumulation and Metabolism of Amino Acids and Phenolic Compounds in Biochemical Plant Responses against Different Species of Herbivorous Arthropods. 	<ol style="list-style-type: none"> 1. Horst Junker, Professor, IMBC GmbH, Germany. IT Supported Sustainability in Corporate Water Resource Management. 2. *<u>Kevin Mearns</u>, Professor, University of South Africa, South Africa & Hannes Grobler, MSc Candidate, University of South Africa, South Africa. Managing Water for Tourism in the Phinda Private Nature Reserve, KwaZulu-Natal, South Africa. 3. *<u>Camilo Lesmes Fabian</u>, Professor, Universidad Santo Tomás Tunja, Colombia, Carlos Andres Caro Camargo, Dean, Civil Engineering Faculty, Universidad Santo Tomas Tunja, Colombia & Ernest Blade i Castellet, Professor, University Polytechnic of Catalonia, Spain. Drying and Transport Processes in Distributed Hydrological Modelling based on Finite Volume Schemes (IBER Model). 4. <u>Dimitrios Athanasiou</u>, Ph.D. Student, Texas Tech University, USA, Danny Reible, Professor, Texas Tech University, USA, Magdalena Rakowska, Postdoctoral Researcher, Texas Tech University, USA, Balaji Rao, Postdoctoral Researcher, Texas Tech University, USA & Ilektra Drygiannaki, Ph.D. Student, Texas Tech University, USA. Quantification of PAHs in Bulk and Size Fractioned Water Samples during Storm Event in an Urban Water Shed.
<p>12:00-13:30 Session IV (ROOM B--Mezzanine Floor): Farming Techniques, Plant Growth and Crop Production II</p>	<p>12:00-13:30 Session V (ROOM C--Mezzanine Floor): Climate Change Impacts, Mitigation and Adaptation</p>
<p>Chair: Sinan Ogun, Researcher, Red Rock Agricultural Pastoral R&D, Turkey.</p>	<p>Chair: *Piotr Nowicki, Associate Professor, Jagiellonian University, Poland.</p>
<ol style="list-style-type: none"> 1. *Genlou Sun, Professor, Saint Mary’s University, Canada. Genetic Divergence in Domesticated and non-Domesticated Gene Regions of Barley Chromosomes. 2. <u>Raul Pinto</u>, Lecturer, Izmir University of Economics, Turkey, Paul Atkinson, Professor, Sheffield Hallam University, U.K., Joaquim Vieira, Assistant Researcher, University of Aveiro, Portugal, Miguel Carvalhais, Assistant Professor, University of Porto, Portugal, Derya IrkdasDogu, Lecturer, Izmir University of Economics, Turkey & A. Can Ozcan, Izmir University of Economics, Turkey. From Design-by-Doing to Co-Designing: An Exploratory Case Study with a Beehive Producer. 3. <u>Ruveyde Tuncturk</u>, Associate Professor, Yuzuncu Yil University, Turkey, Haluk Kulaz, Yuzuncu Yil University, Turkey, Vahdettin Ciftci, Abant Izzet Baysal University, Turkey & Murat Tuncturk, Yuzuncu Yil University, Turkey. Effects on Nutrient Contents of Fenugreek (<i>Trigonella foenum-graecum</i> L.) of Different Organic Materials and <i>Rhizobium meliloti</i> Strains. 	<ol style="list-style-type: none"> 1. Raymond A Younis, Coordinator and Core Curriculum, University of Notre Dame, Australia. <i>Eudaimonian</i> Questions: On the “Moral Tragedy” of Climate Change.

13:30-14:30 Lunch

14:30-15:30 Session VI (ROOM B--Mezzanine Floor): Farming Techniques, Plant Growth and Crop Production III

Chair: *Kevin Mearns, Professor, University of South Africa, South Africa.

1. Muien Qaryouti, Researcher, National Center for Agriculture Research and Extension, Jordan, Mustafa Edwan, Research Assistant, National Center for Agriculture Research and Extension, Jordan, Rana Muhaisen, Researcher, National Center for Agriculture Research and Extension, Jordan & Manal Hiary, Research Assistant, National Center for Agriculture Research and Extension, Jordan. Screening of Local Jordanian Purslane (*Portulaca oleracea* L.) Accessions under Saline Soil Conditions.
2. *Kgabo Martha Pofu, Researcher, Agricultural Research Council (ARC), South Africa, Phatu Mashela, Senior Professor, University of Limpopo, South Africa, Hintsu Araya, Researcher, Agricultural Research Council (ARC), South Africa & Christian du Plooy, Programme Manager, Agricultural Research Council (ARC), South Africa. Intergeneric Grafting of Nematode-Susceptible Watermelon Cultivars on Nematode-Resistant Wild *Cucumis* Species: A Success Story in Nematode Management.

15:30-17:00 Session VII (ROOM B--Mezzanine Floor): Environmental, Ecological and Other Issues

Chair: *Cezary Sempuch, Associate Professor, Siedlce University of Natural Sciences and Humanities, Poland.

1. Zarbakht Ansari Pirsaraei, Scientific Staff, Sari Agricultural Sciences and Natural Resources University, Iran & Eissa Dirandeh, Scientific Staff, Sari Agricultural Sciences and Natural Resources University, Iran. Effect of Service Number on Resynchronization Responses in Lactating Dairy Cows.
2. Tiberius Balaes, Researcher, Anastasie Fatu Botanical Garden, Alexandru Ioan Cuza University of Iasi, Romania & Catalin Tanase, Professor, Alexandru Ioan Cuza University of Iasi, Romania. Non-Target Affected Organisms by the Use of Pesticides and Resistant Basidiomycete Species.
3. Juan Camilo Gil Fuquene, Research Assistant, Universidad Santo Tomas Tunja, Colombia, Carlos Daniel Rincon Suescun, Research Assistant, Universidad Santo Tomas Tunja, Colombia, Camilo Lesmes Fabian, Professor, Universidad Santo Tomás Tunja, Colombia, Gloria Lucia Camargo Millan, Associate Professor, Universidad Pedagógica y Tecnológica de Colombia, Colombia & Carlos Andres Caro Camargo, Dean of the Faculty of Civil Engineering, Universidad Santo Tomas Tunja, Colombia. Environmental Impact Assessment of Brick Production in the Region of Boyaca, Colombia.

21:00-23:00 Greek Night and Dinner (Details during registration)

Tuesday 12 July 2016

08:00-11:00 Educational and Cultural Urban Walk Around Modern and Ancient Athens (Details during registration)

11:00-12:30 Session VIII (ROOM B--Mezzanine Floor): Environmental and Ecological Issues III

Chair: Derya Esen, Professor, Head of the Department of Forest Engineering, Düzce University, Turkey.

1. Harnpon Phungrassami, Assistant Professor, Thammasat University, Thailand & Phairat Usubharatana, Assistant Professor, Thammasat University, Thailand. Environmental Performance Indicators of Canned Sweet Corn Industry. (Monday July 11 or Tuesday July 12, morning session)
2. Alexandre Chikalanov, Lecturer, University of Library Study and Information Technology, Bulgaria, Roumen Nikolov, Professor, Head of Department of Computer Science and UNESCO Chairholder, University of Library Study and Information Technology, Bulgaria & Maiyana Lyubenova, Associate Professor, University of Library Study and Information Technology, Bulgaria. Future of Internet, Ecosystem Services and Sustainable Regional Development.
3. Miriam Torres-Miralles, Lecturer, Universidad Complutense de Madrid, Spain, Ioanna Grammatikopoulou, CzechGlobe Research Institute, Czech Republic & Alejandro Javier Rescia Perazzo, Universidad Complutense de Madrid, Spain. Employing Contingent and Inferred Valuation Methods to Evaluate the Preservation of Olive Groves and of the Associated Ecosystem Services in the Andalusia Region.
4. Carlos Daniel Rincon Suescun, Research Assistant, Universidad Santo Tomas Tunja, Colombia, Juan Camilo Gil Fuquene, Research Assistant, Universidad Santo Tomas Tunja, Colombia, Camilo Lesmes Fabian, Professor, Universidad Santo Tomás Tunja, Colombia, Gloria Lucia Camargo Millan, Associate Professor, Universidad Pedagógica y Tecnológica de Colombia, Colombia & Carlos Andres Caro Camargo, Dean, Civil Engineering Faculty, Universidad Santo Tomas Tunja, Colombia. Definition of a System of Indicators for the Sustainability Assessment in the Production of Construction Materials in the Region of Boyaca, Colombia.
5. Remus Pravalie, Ph.D. Student, University of Bucharest, Romania & Georgeta Bandoc, Professor, University of Bucharest, Romania. Analysis of the Current Land Degradation Sensitivity Areas in Europe using the DISMED Framework.

12:30-14:00 Session IX (ROOM B--Mezzanine Floor): Technology and (Sustainable) Agriculture Practices	12:30-14:00 Session X (ROOM C--Mezzanine Floor): Water Pollution and Water Management II
Chair: Tiberius Balaes, Researcher, Anastasie Fatu Botanical Garden, Alexandru Ioan Cuza University of Iasi, Romania.	Chair: Horst Junker, Professor, IMBC GmbH, Germany.
<ol style="list-style-type: none"> 1. <u>Giovanna Fachini Dellaqua</u>, MSc Student, University of São Paulo, Brazil, Marcelo Machado Leão, Post-doctoral, University of São Paulo, Brazil, Marta Helena Fillet Spoto, Research and Professor, University of São Paulo, Brazil, Márcia Ortiz Maio Marques, Scientific Researcher, Instituto Agrônômico of Campinas, Brazil & José Otávio Brito, Research and Professor, University of São Paulo, Brazil. Essential Oil Production from a Brazilian Native <i>Myrtaceae</i>–Cambuci (<i>Campomanesia Phaea</i>). 2. *Tomas de Jesus Guzman Hernandez, Titular Researcher, Costa Rica Institute of Technology, Regional Headquarters of San Carlos, Costa Rica. Solar Energy in Agricultural Systems: Results of a Local Pilot Program in the Northern Region of Costa Rica. 3. <u>Emilie Didier Fiogbe</u>, Director of Laboratory of Research on Wetlands, University of Abomey-Calavi, Benin, Clement Bonou, Lecturer, University of Abomey-Calavi, Benin & Herve Akodogbo, Assistant, University of Abomey-Calavi, Benin. Use of Pig Dung as Fertilizer and Substrates to Produce Live Foods for Larvae (Zooplankton) and Juvenile's Fish. 	<ol style="list-style-type: none"> 1. Thomas Pietsch, Professor, HTW Berlin, Germany. Process Maturity Assessment of Water Consumption in the Wine Industry. 2. <u>Joachim Osuagwu</u>, Senior Lecturer, Federal University of Technology, Nigeria, N.L. Nwakwasi, Federal University of Technology, Nigeria & A.N. Nwachukwu, Federal University of Technology, Nigeria. Low Cost Technique for Treatment of Iron Contaminated Water. 3. <u>Carlos Alberto Valera</u>, Ph.D. Student, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil, Teresa Cristina Tarlé Pissarra, Professor, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil, Marcílio Vieira Martins Filho, Professor, Universidade Estadual Paulista “Júlio De Mesquita Filho”, Brazil & Renato Farias Do Valle Júnior, Professor, Instituto Federal Do Triângulo Mineiro, Brazil. The Polluter Pays Principle and Soil-Water Conservation - Potencial Erosion Study of Uberaba River Watershed, Brazil.

14:00-15:00 Lunch

15:00-16:00 Session XI (ROOM B--Mezzanine Floor): Nutrition and Food Security
Chair: Marcelo Machado Leao, Post-doctoral Researcher, University of São Paulo, Brazil.
<ol style="list-style-type: none"> 1. <u>Phatu William Mashela</u>, Professor, University of Limpopo, South Africa, Kgabo Pofu, Researcher, University of Limpopo, South Africa, Zakheleni Dube, Researcher, University of Limpopo, South Africa & Kagiso Shadung, Researcher, University of Limpopo, South Africa. Managing Phytonematicide Phytotoxicities in Tomato Production: The Dosage Model. 2. *<u>Arturo Francisco Castellanos Ruelas</u>, Professor-Researcher, Autonomous University of Yucatan, Mexico, Riccardo Lorenzini, Medical Student, Università degli Studi di Verona, Italy, David A. Betancur-Ancona, Professor-Researcher, Autonomous University of Yucatan, Mexico & Luis A. Chel-Guerrero, Professor-Researcher, Autonomous University of Yucatan, Mexico. The Impact of Lifestyle on the Nutritional Status of University Students from Mexico.

16:00-18:00 Session XII (ROOM B--Mezzanine Floor): Farming Techniques, Plant Growth and Crop Production IV

Chair: *Arturo Francisco Castellanos Ruelas, Professor-Researcher, Autonomous University of Yucatan, Mexico.

1. Li-Sen Young, Associate Professor, National Formosa University, Taiwan. Dissemination of Rice Endophytes into Rhizosphere under Gnotobiotic P-stress.
2. *Bo Zhang, Ph.D. Candidate, University of Miami, USA, Xianwu Zhang, Planning Institute of State Forestry Administration, China, Zhiyuan Fu, Nanjing Forestry University, China & Jinchu Zhang, Nanjing Forestry University, China. Detecting the Effect of Elevation Gradient on Plant Demography and the Impact of Climate Change on Shifts in Elevation Distribution 20 Years Data.
3. Ines Bellil, Doctor, Université des frères Mentouri Constantine, Algeria, Ouahiba Hamdi, Doctor, Université de Tebessa, Algeria & Douadi Khelifi, Professor, Université des frères Mentouri Constantine, Algeria. Assessing Genetic Diversity Based on High and Low Molecular Weight Glutenin Subunits within Bread Wheat (*Triticum aestivum* ssp. *aestivum* L. em. Thell.) Germplasm Cultivated in Algeria.
4. Onai Mtengwa, Researcher and Lecturer, University of Venda, South Africa. Effect of Varying Phosphorus Rates on Nodulation in Different Genotypes of Desi Chickpea (*Cicer Arientinum*).
5. Marcelo Machado Leao, Post-doctoral Researcher, University of São Paulo, Brazil, Giovanna Fachini Dellaqua, MSc Student, University of São Paulo, Brazil, Marta Helena Fillet Spoto, Research and Professor, University of São Paulo, Brazil, Márcia Ortiz Maio Marques, Scientific Researcher, Instituto Agronômico of Campinas, Brazil & José Otávio Brito, Research and Professor, University of São Paulo, Brazil. The Potential of *Campomanesia phaea* (cambuci) as Natural Source of Vitamin C.

21:00-22:30 Dinner (Details during registration)

Wednesday 13 July 2016
Cruise: (Details during registration)

Thursday 14 July 2016
Delphi Visit: (Details during registration)