



**Athens Institute for Education and Research**  
*A World Association of Academics & Researchers*



**5<sup>th</sup> Annual International Conference on Ecology, Ecosystems and Climate Change, 10-13 July 2017, Athens, Greece**

**Organized by the Natural & Formal Sciences Division**

*Sponsored by the Athens Journal of Sciences*

**Conference Venue: Titania Hotel, 52 Panepistimiou Avenue, Athens, Greece (close to Omonoia metro station)**

**Monday 10 July 2017**

**08:00-09:00 Registration and Refreshments**

**09:00-09:30 (Room B-10<sup>th</sup> Floor) Welcome and Opening Address**

Gregory T. Papanikos, President, ATINER.

**09:30-11:00 Session I (Room B-10<sup>th</sup> Floor): Plant Production I**

**Chair:** Olga Gkounta, Researcher, ATINER.

1. Tala Awada, Professor and Associate Dean of Research, University of Nebraska-Lincoln, USA, Ra-Landa Gomez-Pond, Graduate Student, University of Nebraska-Lincoln, USA, Harel Bacher, Graduate Student, University of Nebraska-Lincoln, USA, Sruti Das Choudhury, Research Assistant Professor, University of Nebraska-Lincoln, USA, Harkamal Walia, Associate Professor, University of Nebraska-Lincoln, USA, Yufeng Ge, Assistant Professor, University of Nebraska-Lincoln, USA & Vincent Stoerger, Plant Phenotyping Facility Manager, University of Nebraska-Lincoln, USA. High Throughput Plant Phenotyping Application in Addressing Current and Emerging Issues in Agricultural Research.
2. Janusz Zwiazek, Professor, University of Alberta, Canada & Xiangfeng Tan, Graduate Student, University of Alberta, Canada. Aquaporins and Oxygen Transport in Plants: Consequences for Waterlogging Tolerance and Crop Productivity.
3. Stefan Gandev, Associate Professor, Fruit Growing Institute, Bulgaria. Performance of the Apple Cultivars 'Braeburn' and 'Granny Smith' on M9 Rootstock, Trained to the Systems Slender Spindle, Solen and Vertical Axis.
4. Dongdong Qiu, PhD Student, Beijing Normal University, China. The Effective Retention and Germination Mechanism of the Suaeda Salsa Seeds under the Effect of Tides in a Chinese Intertidal Salt Marsh.

**09:30-11:00 Session II (Room C-10<sup>th</sup> Floor): Animal Production**

**Chair:** Vassilis Skianis, Research Fellow, ATINER.

1. Christos Tachtatzis, Lecturer – Chancellor's Fellow, University of Strathclyde, UK, Craig Michie, Reader, University of Strathclyde, UK & Ivan Andonovic, Professor, University of Strathclyde, UK. Cloud-based Animal Health Service Provision.
2. Jonas Jatkauskas, Senior Scientist, Lithuanian University of Health Sciences, Lithuania & Vilma Vrotniakiene, Senior Scientist, Lithuanian University of Health Sciences, Lithuania. Using Various Lactic Acid Bacteria Inoculants during Ensiling Different Forages towards Fermentation, Nutritive Value and Aerobic Deterioration.
3. Gulsah Kanbur, Researcher, Selcuk University, Turkey, Yusuf Cufadar, Professor, Selcuk University, Turkey & Rabia Gocmen, Research Assistant, Selcuk University, Turkey. Effect of Different Sources and Levels of Zinc on some Tissues Mineral Concentration in Laying Hens.
4. Kingsley Agbor Etchu, Director, Scientific Coordinator for Animal Production and Fisheries, Institute of Agricultural Research for Development (IRAD), Cameroon, Julius Enow Tabot, Researcher, Institute of Agricultural Research for Development (IRAD), Cameroon, Annabella Abongwa Ngengwi, Researcher, Institute of Agricultural Research for Development (IRAD), Cameroon & Olivier Sandra Ghomsi, Head of Poultry Unit, Institute of Agricultural Research for Development (IRAD), Cameroon. Reproductive Performance of Rabbit Does Fed Moringa Oleifera Leaf Meal (Molm) as a Protein Substitute to Soya Bean Meal.

<b>11:00-12:30 Session III (Room B-10<sup>th</sup> Floor): Agricultural Social Sciences</b>	<b>11:00-12:30 Session IV (Room C-10<sup>th</sup> Floor): Marine Ecology</b>
<b>Chair:</b> Tala Awada, Professor and Associate Dean of Research, University of Nebraska-Lincoln, USA.	<b>Chair:</b> Christos Tachtatzis, Lecturer – Chancellor’s Fellow, University of Strathclyde, UK.
<ol style="list-style-type: none"> <li>1. Anisul Islam, Professor, University of Houston-Downtown, USA. Bangladesh Trade with India-Trends and Patterns.</li> <li>2. Carlos Enrique Guanziroli, Professor, Universidade Federal Fluminense, Brazil. Family Farming in Brazil: Evolution between the 1996 and 2006 Agricultural Censuses.</li> <li>3. <u>Shehu Folaranmi Gbolahan Yusuf</u>, Senior Lecturer, University of Fort Hare, South Africa, Olubunmi Oluwaseun Popoola, PhD Student, University of Fort Hare, South Africa &amp; Nomakhaya Monde, Dean, Faculty of Science and Agriculture, University of Fort Hare, South Africa. Perception to Climate Change and Impact on Agricultural Productivity: An Assessment of Smallholder Farmers in Amathole District Municipality, Eastern Cape Province, South Africa.</li> </ol>	<ol style="list-style-type: none"> <li>1. Gad Degani, Professor, MIGAL, Israel. Building a Model Based on the Morphology, Biology, Behaviour and Life Cycle of <i>T. v. Vittatus</i> Adaptation.</li> <li>2. Jerome Canei, PhD Student, Université de Mons, Belgium. Sandy Substrates: Morphological Adaptations of <i>Heteroconger hassi</i> (Congridae) &amp; <i>Ammodytes tobianus</i> (Ammodytidae).</li> </ol>

<b>12:30-14:00 Session V (Room B-10<sup>th</sup> Floor): Pastoralism</b>	<b>12:30-14:00 Session VI (Room C-10<sup>th</sup> Floor): Water</b>
<b>Chair:</b> Anisul Islam, Professor, University of Houston-Downtown, USA.	<b>Chair:</b> Chansheng He, Professor and Director, Lanzhou University, China.
<ol style="list-style-type: none"> <li>1. Naifeng Lin, Research Assistant, Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, China. The Dynamic Changes of Grass Yield during the Growing Season in Tibetan Grasslands and the Sustainable Development Strategies.</li> <li>2. Dan Wu, Research Assistant, Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, China. Assessment of Effects on Vegetation Rehabilitation in Southwest China.</li> <li>3. <u>Sinan Ogun</u>, Head, RR Research &amp; Development Ltd., Turkey, Ugur Sahbaz &amp; Levent Inan. Transhumant Pastoralism: Efficient Natural Resource Management.</li> </ol>	<ol style="list-style-type: none"> <li>1. <u>Jungwon Ji</u>, Researcher, Ajou University, South Korea, Eunkyung Lee, PhD Student, Ajou University, South Korea, Youngje Choi, PhD Student, Ajou University, South Korea, Heechan Chae, Graduate Student, Ajou University, South Korea &amp; Jaeung Yi, Professor, Ajou University, South Korea. Flood Forecasting for Hydropower Reservoirs Using Neuro-Fuzzy Technique in North Han River.</li> <li>2. <u>Jaehwang Ahn</u>, PhD Student, Ajou University, South Korea, Youngje Choi, PhD Student, Ajou University, South Korea, Eunkyung Lee, PhD Student, Ajou University, South Korea &amp; Jaeung Yi, Professor, Ajou University, South Korea. Analysis of Diversion Tunnel to Supply Water in Severe Drought Situation.</li> </ol>

**14:00-15:00 Lunch**

<b>15:00-16:30 Session VII (Room B-10<sup>th</sup> Floor): Plant Production II</b>	<b>15:00-16:30 Session VIII (Room C-10<sup>th</sup> Floor): Ecology</b>
<b>Chair:</b> Stefan Gandev, Associate Professor, Fruit Growing Institute, Bulgaria.	<b>Chair:</b> Muhammad Farooq Hussain Munis, Assistant Professor, Quaid-i-Azam University, Pakistan.
<ol style="list-style-type: none"> <li>1. <u>Sabreen Pibars</u>, Associate Professor, National Research Centre, Egypt, Kamel El-Tohamy, Assistant Researcher, National Research Centre, Egypt, Khalid El-Bagoury, Associate Professor, Ain Shams University, Egypt, Mona Soliman, Professor, National Research Centre, Egypt &amp; Ahmed Abdel-Aziz, Professor, Ain Shams University, Egypt. Estimating Actual Crop Evapotranspiration using FAO Single and Dual Crop Coefficients approaches under SDI and SSDI in Arid and Semi-Arid Regions.</li> <li>2. <u>Karina Sandibel Vera Sanchez</u>, MSc Student, Universidad Autónoma Chapingo, Mexico, Raúl Nieto-Ángel, Research Professor, Universidad Autónoma Chapingo, Mexico, Alejandro F. Barrientos-Priego, Research Professor, Universidad Autónoma Chapingo, Mexico, Juan Martínez-Solís, Research Professor, Universidad Autónoma Chapingo, Mexico &amp; Fernando González-Andrés, Research Professor, Universidad de León, Spain. Technique for the Study of the Internal Morphology of Seeds and Endocarp in Tejocote (<i>Crataegus</i> spp.).</li> </ol>	<ol style="list-style-type: none"> <li>1. <u>Anastasios Mazis</u>, PhD Student, University of Nebraska-Lincoln, USA, Jeremy Hiller, Research Manager, University of Nebraska-Lincoln, USA, Pat Morgan, Senior Scientist, Environmental Division, LICOR Biosciences, USA, Vincent Stoerger, Plant Phenotyping Facility Manager, University of Nebraska-Lincoln, USA &amp; Tala Awada, Professor and Associate Dean of Research, University of Nebraska-Lincoln, USA. High Throughput Plant Phenotyping: A New Window to Natural Resources Management and Agricultural Research.</li> <li>2. Jixi Gao, Professor, Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, China. Construction of Technique System of China's Ecological Protection Redlines.</li> <li>3. Delin Xu, Research Assistant, Nanjing Institute of Environmental Sciences, Ministry of Environmental Protection, China. Spatial Heterogeneity in the Food Web of a Large Shallow Eutrophic Lake (Lake Taihu, China): Implications for Eutrophication Process and Management.</li> </ol>

<b>16:30-18:00 Session IX (Room B-10<sup>th</sup> Floor): Special Issues I</b>
<b>Chair:</b> Carlos Enrique Guanzirolí, Professor, Universidade Federal Fluminense, Brazil.
<ol style="list-style-type: none"> <li>1. Derya Arslan (Danacioglu), Associate Professor, Necmettin Erbakan University, Turkey. The Effects of Ultrasound and Microwave Pre-Treatments and Enzyme Addition on Some Physical and Chemical Properties of Olive Oil.</li> <li>2. <u>Galina Konarbaeva</u>, Leading Researcher, Institute for Soil Science and Agricultural Chemistry, Russia &amp; Boris Smolentsev, Head, Laboratory of Geography and Soil Genesis, Institute for Soil Science and Agricultural Chemistry, Russia. Influence of Various Factors on the Iodine Content in Soils of Western Siberia. (<a href="#">Paper</a>)</li> <li>3. Muhammad Farooq Hussain Munis, Assistant Professor, Quaid-i-Azam University, Pakistan. Sensitive Detection of <i>Aspergillus Tubingensis</i> causing Heart Rot in Pomegranate (<i>Punica Grantum</i> L.) and its Biocontrol by Indigenous Phyto-Extracts.</li> </ol>

**21:00-23:00 The Pragmatic Symposium of the Conference as Organized in Ancient Athens with Dialogues, Food, Wine, Music and Dancing but fine tuned to Synchronous Ethics**

## Tuesday 11 July 2017

### 07:30-10:30 Session X: An Educational Urban Walk in Modern and Ancient Athens

**Chair:** Gregory Katsas, Vice President of Academic Affairs, ATINER & Associate Professor, The American College of Greece-Deree College, Greece.

Group Discussion on Ancient and Modern Athens.

Visit to the Most Important Historical and Cultural Monuments of the City (be prepared to walk and talk as in the ancient peripatetic school of Aristotle)

### 11:00-12:30 Session XI (Room B-10<sup>th</sup> Floor): Special Issues II

**Chair:** Janusz Zwiazek, Professor, University of Alberta, Canada.

1. Ofir Degani, Research Group Leader, Molecular Phytopathology Lab, Migal - Galilee Research Institute, Israel, S. Dor, Migal – Galilee Research Institute, Israel, A. Meerson, Migal – Galilee Research Institute, Israel, O. Rabinowitz, Ministry of Agriculture and Rural Development, Israel, Y. Goldblat, Tel-Hai College, Israel & D. Movshowitz, Tel-Hai College, Israel. qPCR-based Method for Evaluating the Efficiency of Seed Coating against Maize Late Wilt Disease.
2. Monif AlRashidi, Dean of Scientific Research, University of Ha'il, Saudi Arabia. Behavioural Mechanisms Adopted by Incubating Seabirds to Cope with Extreme Hot Environments: a Case Study on the Incubation of Lesser Crested Terns (*Thalasseus Bengalensis*).
3. Iise Michelle Mancilla-Infante, MSc Student, Universidad Autónoma Chapingo, Mexico, Juan Enrique Rodríguez-Pérez, Research Professor, Universidad Autónoma Chapingo, Mexico, Jaime Sahagún-Castellanos, Research Professor, Universidad Autónoma Chapingo, Mexico & Alejandro F. Barrientos-Priego, Research Professor, Universidad Autónoma Chapingo, Mexico. Interspecific Rootstocks (*Solanum lycopersicum* L. x *Solanum pimpinellifolium*) in Tomato Production.
4. Esra Per, Researcher, Gazi University, Turkey. The Common Bird Composition, Abundance and Distribution in the Developed and Industrialized Provinces of Turkey.
5. Ece Dereagzi, Research Assistant, Istanbul Bilgi University, Turkey. Population Density Estimation of Lyciasalamandra Flavimembris in Paradise Island (Marmaris).

### 12:30-14:00 Session XII (Room B-10<sup>th</sup> Floor): Energy

**Chair:** Ofir Degani, Research Group Leader, Molecular Phytopathology Lab, Migal - Galilee Research Institute, Israel.

1. Ebun Akinsete, Associate Lecturer, Robert Gordon University, UK and Senior Researcher, International Centre for Research on the Environment and the Economy (ICRE8), Greece & Victor Osu, Researcher, Robert Gordon University, UK. The Sustainability Nexus: Developing Resilient Communities in Emerging Nations via Clean Energy Access.
2. Eugenio Romantchik, Professor, University Agricultural Chapingo, Mexico & Eduardo Urban Rios, University Agricultural Chapingo, Mexico. Selection of Photovoltaic Systems to the Greenhouses.
3. Lidi Wang, Associate Professor, Shenyang Agricultural University, China. Design on Cooling Cycle System in Rural Areas.

### 12:30-14:00 Session XIII (Room C-10<sup>th</sup> Floor): Marine Ecology & Water

**Chair:** Monif AlRashidi, Dean of Scientific Research, University of Ha'il, Saudi Arabia.

1. Chansheng He, Professor and Director, Lanzhou University, China. Watershed Hydrology: Advancement, Opportunities and Challenges.
2. Pedro G. Toledo, Professor, University of Concepcion, Chile & Gonzalo Quezada, PhD Student, University of Concepcion, Chile. Replacing Fresh Water by Seawater in mineral Processing. Effect of Electrolytes on the Viscoelastic Behaviour of Flocculated Silica Suspensions in Concentrated Seawater Salts by Experiments and Molecular Simulations.
3. Emile Didier Fioqbe, Director of Laboratory, University of Abomey-Calavi, Benin. Complete Replacement of Fish Meal by other Animal Protein Sources on Growth Performance of *Clarias gariepinus* Fingerlings.

14:00-15:00 Lunch

**15:00-16:30 Session XIV (Room B-10<sup>th</sup> Floor): Special Issues III**

**Chair:** Sinan Ogun, Academic Member, ATINER & Head, RR Research & Development Ltd., Turkey.

1. Dolores Valentina Mariscal-Aguayo, Professor, Universidad Autónoma Chapingo, Mexico, Heriberto Estrella-Quintero, Professor, Universidad Autónoma Chapingo, Mexico & Jose Enrique Salas-Barboza, Independent Consultant, Agropec Star, S.A. de C.V., México. Coffee Value Network Characterization using the Advisory and Consulting Model Chapingo - AGROPEC Star®.
2. Phokele Maponya, Project Manager, Agricultural Research Council, South Africa, Venter SL, Agricultural Research Council, South Africa, Du Plooy CP, Agricultural Research Council, South Africa & Van Den Heever E, Agricultural Research Council, South Africa. The Status of Drought in the Winterveldt Area: A Case of Smallholder Farmers in Tshwane, South Africa.
3. Javier Mauricio Obando Ulloa, Researcher, Costa Rica Institute of Technology, Costa Rica, Mikel Rivero Marcos, Researcher, Universidad Pública de Navarra, Spain, María Fernanda Sanchez-Ramírez, Student, Costa Rica Institute of Technology, Costa Rica, Esteban Martinez-Mora, Student, Costa Rica Institute of Technology, Costa Rica, Guillermo Castro-Badilla, Professor, Costa Rica Institute of Technology, Costa Rica, Freddy Araya-Rodríguez, Professor, Costa Rica Institute of Technology, Costa Rica & Tomas de Jesus Guzman-Hernandez, Professor, Costa Rica Institute of Technology, Costa Rica. Solar Energy as an Alternative Productive Tool in Agricultural Units in Costa Rica.

**16:30-16:50 Closing Remarks**

**Sinan Ogun, Academic Member, ATINER & Head, RR Research & Development Ltd., Turkey.**

**21:00- 22:30 Dinner**

**Wednesday 12 July 2017**  
**Educational Island Tour or Mycenae and Epidaurus Visit**

**Thursday 13 July 2017**  
**Delphi Visit**

All ATINER's conferences are organized by the Academic Committee (<https://www.atiner.gr/academic-committee>). This conference has been organized with the assistance of the following academics, who contributed by chairing the conference sessions and/or by reviewing the submitted abstracts and papers:

1. Gregory T. Papanikos, President, ATINER.
2. Chansheng He, Professor and Director, Lanzhou University, China.
3. Janusz Zwiasek, Professor, University of Alberta, Canada.
4. Sinan Ogun, Academic Member, ATINER & Head, RR Research & Development Ltd., Turkey.
5. Tala Awada, Professor and Associate Dean of Research, University of Nebraska-Lincoln, USA.
6. Anisul Islam, Professor, University of Houston-Downtown, USA.
7. Monif AlRashidi, Dean of Scientific Research, University of Ha'il, Saudi Arabia.
8. Carlos Enrique Guanzioli, Professor, Fluminense Federal University, Brazil.
9. Stefan Gandev, Associate Professor, Fruit Growing Institute, Bulgaria.
10. Ofir Degani, Research Group Leader, Molecular Phytopathology Lab, Migal - Galilee Research Institute, Israel.
11. Muhammad Farooq Hussain Munis, Assistant Professor, Quaid-i-Azam University, Pakistan.
12. Christos Tachtatzis, Lecturer – Chancellor's Fellow, University of Strathclyde, UK.
13. Vassilis Skianis, Research Fellow, ATINER.
14. Olga Gkounta, Researcher, ATINER.
15. Hannah Howard, Research Assistant, ATINER.