07:50-08:40 Registration and Refreshments

08:50-09:20 (Room C - 10th Floor): Welcome and Opening Address by Gregory T. Papanikos, President, ATINER.

09:30-11:00 Session I (Room E - Mezzanine): Air Pollution I

Chair: Olga Gkounta, Researcher, ATINER.

1. Alan Hedge, Professor, Cornell University, USA. Effects of Buildings on Air Pollution and Climate Change.
2. Yunsoo Choi, Associate Professor, University of Houston, USA. Using AI Deep Learning to Predict Ozone Concentrations 24 Hours in Advance and Climate Change Impact on Ozone in Texas.
3. Hongyong Qiao, Postgraduate Student, Beijing Forestry University, China. A New Synonym for Beijing's Environmental Quality – “Beijing Blue”.

11:00-12:30 Session II (Room E - Mezzanine): Waters: Monitoring, Analysis, Pollution and Abatement

Chair: Monica Siroux, Professor, Director of the Environmental and Electrical Engineering Department, ICube | INSA Strasbourg, France.

1. Valerie Laforest, Research Director / Professor, École des Mines de Saint-Étienne, France & Jonathan Villot, Assistant Professor, École des Mines de Saint-Étienne, France. Assessing Urban Wastewater Treatment Process through Best Available Technique Criteria.
2. Cassandra Carter, Research Student, University of St. Thomas, USA, Erin Curran, Associate Professor, University of St. Thomas, USA, Dalma Martinovic – Weigelt, Associate Professor, University of St. Thomas, USA, Alvine Mehinto, Senior Scientist, Southern California Coastal Water Research Project, USA, Natalia Garcia Reyero Vinas, Research Biologist, US Army Engineer Research and Development Center, USA & Mark Ferrey, Research Scientist 2, Minnesota Pollution Control Agency, USA. Prioritization of Environmental Contaminants in Aquatic Ecosystems: A Partial Least Squares Approach.
Session III (Room E - Mezzanine): Sustainable Development: Education, Climate Change and Energy Considerations

Chair: Valérie Laforest, Research Director / Professor, École des Mines de Saint-Étienne, France.

1. Monica Siroux, Professor, Director of the Environmental and Electrical Engineering Department, ICube | INSA Strasbourg, France. Towards Sustainable Energy Technologies: The Case of the Micro Combined Heat and Power Systems.

2. Camelia Maier, Professor, Texas Woman’s University, USA. Texas Woman’s University Pollinator Gardens – Working toward Conservation and Sustainability Education.

3. Erofili Pontikaki, Lecturer, Webster University Thailand, Thailand. The Katowice Climate Change Conference 2018 and its Implications for the EU.

4. Ana María Leon Ramos, MSc Student, Universidad Juárez Autónoma de Tabasco, Mexico, Candelario Ramon de los Santos, PhD Student, Universidad Juárez Autónoma de Tabasco, Mexico, Laura Lorena Díaz Flores, Researcher, Universidad Juárez Autónoma de Tabasco, Mexico, Angelica Silvestre Lopez Rodriguez, Researcher, Universidad Juárez Autónoma de Tabasco, Mexico, Edgar Vicente Macias Melo, Researcher, Universidad Juárez Autónoma de Tabasco, Mexico, Pío Sifuentes Gallardo, Researcher, Universidad Juárez Autónoma de Tabasco, Mexico & Ma Guadalupe Rivera Ruedas, Researcher, Universidad Juárez Autónoma de Tabasco, Mexico. Formulation for Producing High Strength Hydraulic Concrete Added with Biogenic Nano CaCO3 Structures.

Session IV (Room E - Mezzanine): Biodiversity and Plants

Chair: Yunsoo Choi, Associate Professor, University of Houston, USA.

1. Lenka Skalova, Professor, Charles University, Czech Republic, Lucie Stuchlikova Raisova, Postdoctoral, Charles University, Czech Republic, Lenka Langhansova, Researcher, Czech Academy of Sciences, Czech Republic, Pavel Jakubec, Postdoctoral, Charles University, Czech Republic & Martina Navratiłova, PhD Student, Charles University, Czech Republic. Uptake and Biotransformation of Monepantel in Plants used as Livestock Feed.

2. Rina Kamenetsky Goldstein, Senior Researcher, ARO The Volcani Center, Israel. Biodiversity and Survival Strategies of Geophytes in Mediterranean Climate.

3. Radka Podlipna, Scientist, Institute of Experimental Botany, Czech Academy of Sciences, Czech Republic, Eliska Syslova, PhD Student, Czech Academy of Sciences, Czech Republic, Barbora Szotakova, Professor, Charles University, Czech Republic & Lenka Skalova, Professor, Charles University, Czech Republic. The Fate of Anthelmintics in Soy Plant.

14:00-15:00 Lunch

15:00-16:30 Session IV (Room E - Mezzanine): Biodiversity and Plants

Chair: Yunsoo Choi, Associate Professor, University of Houston, USA.

21:30-23:30 Greek Night and Dinner
### Tuesday 28 May 2019

#### 07:30-10:15 Session VI: An Educational Urban Walk in Modern and Ancient 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)**

#### 11:00-13:00 Session VII (Room D - 10th Floor): Environmentally Friendly Value-Added Products

**Chair:** Salim Hiziroglu, Professor, Oklahoma State University, USA.

1. **Sam Andriani**, Professor / Research Scientist, Columbus State Community College / The Andriani Institute Research Center, USA. Photodegradation of a few Polycyclic Aromatic Hydrocarbons (PAH) in Aqueous Solution.
2. **Emilia-Adela Salca**, Associate Professor, Transilvania University of Brasov, Romania. Evaluation of the Surface Quality of Wood as a Function of Machining Parameters.
4. **Way Long**, Assistant Professor, National Pingtung University of Science and Technology, Taiwan & Chun-Chun Chien, Associate Professor, Foooyin University, Taiwan. Modified Acoustic Property of Bamboo Violin Soundboard using Microphone Array Method.

#### 13:00-14:30 Session VIII (Room D - 10th Floor): Air Pollution II

**Chair:** Alan Hedge, Professor, Cornell University, USA.

3. **Adriana Dumitru**, PhD Student, University of Bucharest, Romania, Alina Olaru, Teaching Assistant, University of Bucharest, Romania, Marius Dumitru, Researcher, National Institute for Laser, Plasma and Radiation Physics, Romania & Gabriela Iorga, Assistant Professor, University of Bucharest, Romania. Influence of Coal Open-Pit Mining on Ambient Air: A Case Study in South-western Romania.

#### 14:30-15:30 Lunch

#### 15:30-17:00 Session IX (Room D - 10th Floor): Air Pollution Measurement Techniques and Legal Compliance

**Chair:** Onur Ulker, Assistant Professor, Kirikkale University, Turkey.

1. **Raúl G. E. Morales**, Professor, University of Chile, Chile, Gregorio P. Jara, Research Associate, University of Chile, Chile & Nicolas Valdes, Professor, Universidad Los Andes, Chile. Atmospheric Pollution by Pm-2.5 and Co in Urban-Rural Zones of Chile.
2. **Marie Dellise**, PhD Student, École des Mines de Saint-Étienne, France, Jonathan Villot, Assistant Professor, École des Mines de Saint-Étienne, France, Rodolphe Gaucher, Head of Unit “Sustainable and Cleaner Technologies and Processes”, INERIS, France, Anne Amardeil, Study Engineer, EDF, France & Valerie Laforest, Research Director / Professor, École des Mines de Saint-Étienne, France. Assessing the Implementation of Best Available Techniques at the Local Scale in the Absence of Industrial Sectoral Reference: An Issue for Compliance Demonstration.

#### 21:00-22:30 Dinner
All ATINER’s conferences are organized by the Academic Council. This conference has been organized with the assistance of the following academics, who contributed by a) setting up the program b) chairing the conference sessions, and/or c) reviewing the submitted abstracts and papers:

1. Gregory T. Papanikos, President, ATINER & Honorary Professor, University of Stirling, UK.
2. Nicolas Abatzoglou, Head, Environment Unit, ATINER; Professor, Department of Chemical & Biotechnological Engineering, Université de Sherbrooke, Canada; Chair Pfizer, Processes and Analytical Technologies in Pharmaceutical Engineering; Director of GRTP-C & P (Groupe de recherches sur les technologies et procédés de conversion et pharmaceutiques); Fellow of Canadian Academy of Engineering.
3. Saif Uddin, Director, Center for Environmental Pollution, Climate & Ecology (CEPCE) & Senior Research Scientist, Kuwait Institute for Scientific Research, Kuwait.
4. Salim Hiziroglu, Academic Member, ATINER & Professor, Natural Resource Ecology and Management, Oklahoma State University, Stillwater, Oklahoma, USA.
5. Krassi Rumchev, Academic Member, ATINER & Associate Professor, School of Public Health, Curtin University, Australia.
6. Alan Hedge, Professor, Cornell University, USA.
7. Sam Andriani, Academic Member, ATINER & Professor / Research Scientist, Columbus State Community College / The Andriani Institute Research Center, USA.
8. Monica Siroux, Professor, Director of the Environmental and Electrical Engineering Department, ICube | INSA Strasbourg, France.
9. Valerie Laforest, Research Director / Professeur, École des Mines de Saint-Étienne, France.
10. Yunsoo Choi, Associate Professor, University of Houston, USA.
11. Onur Ulker, Assistant Professor, Kirikkale University, Turkey.
12. Lampros Pyrgiotis, Research Fellow, ATINER.
13. Olga Gkounta, Researcher, ATINER.