07:50-08:40 Registration and Refreshments

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

09:30-11:00 Session I (Room B - 10th Floor): Physics I

Chair: Ethel Petrou, Professor and Chair, Department of Physics, Erie Community College South, State University of New York, USA.

1. Itzhak Orion, Head, Department of Nuclear Engineering, Ben-Gurion University of the Negev, Israel & Jonathan Walg, Ben-Gurion University of the Negev, Israel. Evidence of Neutrino Flux Effect on Alpha Emission Radioactive Half-Life.
2. Salaheldin Doma, Professor, Alexandria University, Egypt. Large Basis Unitary Scheme Model Calculations for the Mirror Nuclei with $A = 7$.
3. Ping Zhu, Professor, Puer University, China. Field Spatial Distributions Generated by an Elliptic Ring Uniformly Charged.
4. Deniz Yilmaz, Associate Professor, Ankara University, Turkey. Combined Effect of NSI and SFP on Dirac Type Solar Electron Neutrinos.

11:00-12:30 Session II (Room A - 10th Floor): Teaching & Learning

Chair: Olga Gkounta, Researcher, ATINER.

1. Costas Efthimiou, Associate Professor, University of Central Florida, USA, Elena Flitsiyan, Associate Lecturer, University of Central Florida, USA & Talat Rahman, Professor, University of Central Florida, USA. Assessment of the Effect of Service Learning in Introductory Physics on Students Learning and Critical Thinking.
2. Attila Kovari, Associate Professor, Head of Department, University of Dunajvaros, Hungary. Education Perspectives of Human-Computer Interfaces.
3. Manuel Condoleon, Lecturer, Australian Catholic University (ACU), Australia. Talk The Tok and Walk The Wok: How International Baccalaureate Subject Teachers Integrate Theory of Knowledge in their Teaching (Case Studies in India, Thailand and China).

12:30-13:30 Session III (Room A - 10th Floor): STEAM: Institution Experiences

Chair: Attila Kovari, Associate Professor, Head of Department, University of Dunajvaros, Hungary.

1. Andreas Karatsolis, Associate Director of Writing, Rhetoric and Professional Communication, Massachusetts Institute of Technology (MIT), USA. Integrating Communication and STEM through Stasis Theory at MIT.
2. Aymen Elsheikh, Instructional Assistant Professor, Texas A&M University at Qatar, Qatar. STEAM Education at an American Branch Campus in Qatar.
13:30-14:30 Lunch
14:30-16:00 Session IV (Room A - 10th Floor): Materials

Chair: Salaheldin Doma, Professor, Alexandria University, Egypt.

1. Hussein Motaweh, Professor, Damanhour University, Egypt & Marwa Nabil, Associate Professor, Advanced Technology and New Materials Research Institute, Egypt. Porous Silica as a Master Material in Various Applications.
2. Madalina Simona Baltatu, Assistant Professor, Gheorghe Asachi Technical University of Iaşi, Romania. Electrochemical Behaviour of New Ti-based Alloys, Ti-Mo-Zr-Ta vs. Ti-Mo-Si.
3. Adam Lantos, Postgraduate Student, The University of Edinburgh, Scotland, UK & Konstantinos Moulopoulos, Associate Professor, University of Cyprus, Cyprus. Topology in Modern Solid State Physics: From Topological Insulators to Weyl Semimetals.

16:00-18:00 Session V (Room A - 10th Floor): ATINER’s 2019 Series of Academic Dialogues: The Future of STEAM (Sciences, Technology, Engineering, Arts and Mathematics) Education

Chairs: Olga Gkounta, Researcher, ATINER.

1. Bala Maheswaran, Professor, Northeastern University, USA. STEAM Education through Experiential Learning.
2. Ellene Tratras Contis, Professor of Chemistry, Eastern Michigan University, USA. Community-based/STEM Experiential Learning: Is it STEAM?
3. Nikos J. Mourtos, Professor & Chair, Aerospace Engineering, San Jose State University, USA. STEAM Education in the 21st Century: Are we Neglecting the “A”?
4. Ethel Petrou, Professor and Chair, Department of Physics, Erie Community College South, State University of New York, USA. The Many Faces of STEAM at a Community College in Western New York.

21:00-23:00 Greek Night and Dinner

Tuesday 23 July 2019

07:45-10:45 Session VI: An Educational Urban Walk in Modern and Ancient Athens

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)

11:15-13:00 Session VII (Room B - 10th Floor): Chemistry

Chair: Ellene Tratras Contis, Professor of Chemistry, Eastern Michigan University, USA.

2. Ayman El-Faham, Professor, King Saud University, Saudi Arabia. Chemoselectivity of Cyanuric Chloride (TCT) as a Trifunctional Linker with Different Nucleophiles.
3. Naglaa El-Sayed, Associate Professor, National Research Centre, Egypt, Ewies Fawzy Mahmoud, Associate Professor, National Research Centre, Egypt & Marwa El-Hussieny, Associate Professor, National Research Centre, Egypt. One-Pot Three-Component Kabachnik–Fields, Synthesis of α-Aminophosphonates Bearing Oxadiazole Using Iron Triflate.
### 13:00-14:30 Session VIII (Room B - 10th Floor): Physics II

**Chair:** Itzhak Orion, Head, Department of Nuclear Engineering, Ben-Gurion University of the Negev, Israel.

1. Vladimir Nikolaenko, Senior Physicist, National Research Center «Kurchatov Institute», Russia. New Measurement of CP-violating Phase \( \phi_{\sin D} \) Decay of Bs Mesons in ATLAS.
2. Ciprian Sporea, Research Assistant, West University of Timisoara, Romania. Quantum Fields Scattered by a Charged Black Hole with Quintessence.

### 14:30-15:30 Lunch

### 15:30-16:30 Session IX (Room A - 10th Floor): STEAM: Special Topics

**Chair:** Bala Maheswaran, Professor, Northeastern University, USA.

1. Angel Vazquez-Alonso, Professor and Researcher, University of the Balearic Islands, Spain & Maria-Antonia Manassero-Mas, Professor and Researcher, University of the Balearic Islands, Spain. An Elaboration on the Interface between STEM and Art Searching for Convergences.
2. Eunyoung Kim, Associate Professor, Japan Advanced Institute of Science and Technology, Japan. STEAM Education in the Context of the Educational Innovations in Graduate Schools.

### 16:30-18:00 Session X (Room A - 10th Floor): Manufacturing & Materials

**Chair:** Mustafa Bakkal, Professor, Istanbul Technical University, Turkey.

3. Ahmed Sabry Abdel-Rahman, Associate Professor, Cairo University, Egypt. Measuring the Internal Friction of some Rubber Composites doped Nanocarbon using the Laser Shadowgraphy Pulse Excitation Technique.
4. Marwa Elnady, Researcher Assistant, Central Metallurgical Research and Development Institute, Egypt & Malak Abou El-Khair, Professor, Central Metallurgical Research and Development Institute, Egypt. Effect of PP Grafted p-Hydroxy-N-Phenyl Maleimide Comptabilizer and Organoclay Percent on the Properties of Polypropylene/Organoclay Nanocomposites.

### 20:30-22:00 Dinner

**Wednesday 24 July 2019**

Mycenae and Island of Poros Visit

Educational Island Tour

**Thursday 25 July 2019**

Delphi Visit
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. Ellene Tratras Contis, Professor of Chemistry, Eastern Michigan University, USA.
3. 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.
4. Ayman El-Faham, Academic Member, ATINER & Professor, King Saud University, Saudi Arabia.
5. Ethel Petrrou, Professor and Chair, Department of Physics, Erie Community College South, State University of New York, USA.
6. Bala Maheswaran, Professor, Northeastern University, USA.
7. Itzhak Orion, Head, Department of Nuclear Engineering, Ben-Gurion University of the Negev, Israel.
8. Salaheldin Doma, Professor, Alexandria University, Egypt.
9. Mustafa Bakkal, Professor, Istanbul Technical University, Turkey.
10. Attila Kovari, Associate Professor, Head of Department, University of Dunaujvaros, Hungary.
11. Lampros Pyrgiotis, Research Fellow, ATINER.
12. Olga Gkounta, Researcher, ATINER.