



7th Annual International Conference on Physics
as part of the [Annual International Conference on Sciences](#)

22-25 July 2019, Athens, Greece

Sponsored by the [Athens Journal of Sciences](#)

Conference Venue: Titania Hotel, 52 Eleftheriou Venizelou (ex Panepistimiou) Street, Athens, Greece (close to metro station Panepistimio)

Monday 22 July 2019

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 Dunaujvaros, 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 Dunaujvaros, 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 Iași, 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 Mouloupoulos, 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 CollegeSouth, 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.

1. Essam Al-Jumaili, Professor, University of Baghdad, Iraq, Abdal-Kader Saeed Latif, University of Baghdad, Iraq & Redha Al-Bayati, University of Baghdad, Iraq. In Silico Molecular Docking Study of New Quinoline -2-one Derivatives for Inhibition *Pseudomonas Aeruginosa's* Growth Isolated from Iraqi Patients.
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 ϕ_{\sin} 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.
3. Roger Anderton, Independent, UK. Einstein's Relativity from Perspective of Boscovich's Theory.

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. Eunyong 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.

1. Steven Le Corre, Professor, University of Nantes, France. Residual Stresses Prediction in Composite Materials Manufacturing: A Multiscale Combined Experimental and Numerical Approach.
2. Muthuramalingam Thangaraj, Associate Professor, SRM Institute of Science and Technology, India. Multi Criteria Decision Making of Power Diode based Process Parameters in Laser Beam Machining Using Taguchi-DEAR Methodology.
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, Gamal Saad, Professor, Cairo University, Egypt, Alaa Eid, Researcher, 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

Friday 26 July 2019
Ancient Corinth and Cape Sounion

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. Ethel Petrou, Professor and Chair, Department of Physics, Erie Community College South, State University of New York, USA.
3. Bala Maheswaran, Professor, Northeastern University, USA.
4. Itzhak Orion, Head, Department of Nuclear Engineering, Ben-Gurion University of the Negev, Israel.
5. Salaheldin Doma, Professor, Alexandria University, Egypt.
6. Ellene Tratras Contis, Professor of Chemistry, Eastern Michigan University, USA.
7. Mustafa Bakkal, Professor, Istanbul Technical University, Turkey.
8. Alexander Mustafaev, Professor of Physics & Head, Department of General and Technical Physics, Head, Plasma Nanotechnology Laboratory, Saint Petersburg Mining University, Russia.
9. Attila Kovari, Associate Professor, Head of Department, University of Dunaujvaros, Hungary.
10. Kirill Levine, Associate Professor, Department of General & Technical Physics, St. Petersburg Mining University, Russia.
11. Athina Meli, Academic Member, ATINER, Visiting Scientist and Research Scholar, University of Gent & University of Liege, Belgium and Ronin Institute Montclair, USA.
12. Olga Gkounta, Researcher, ATINER.