

ARCHERS FINAL (VIRTUAL) CONFERENCE

DECEMBER 6-8, 2021

Monday, December 6, 2021

Opening Session

16:00– 16:15	<p>Opening remarks</p> <p>Nektarios Tavernarakis, Chairman, Board of Directors of FORTH</p> <p>Eleni Agouridi, Senior Program Officer, Stavros Niarchos Foundation (SNF)</p>
16:15 – 16:45	<p>Spiros Anastasiadis, ARCHERS project coordinator, Director of FORTH-IESL</p> <p><i>Reporting on the outcome of the project ARCHERS</i></p>
16:45 – 17:30	<p>Emmanuel P. Giannelis</p> <p>Walter R. Read Professor of Engineering, Vice President for Research and Innovation, Cornell University, USA</p> <p><i>Education to Enterprise</i></p>

Tuesday, December 7, 2021

Session 1: Cultural Heritage (Chairs: D. Anglos, A. Sarris)

10:00 – 10:30	<p>Andreas Vött Institute of Geography, Johannes Gutenberg-Universität Mainz, Germany <i>Investigating the palaeotsunami record of Crete (Greece) – case studies from the southwestern and northern coasts</i></p>
10:30 – 10:50	<p>Nikos Psonis IMBB, FORTH <i>Ancient mitogenomics of the extinct Cypriot pygmy hippopotamus</i></p>
10:50 – 11:10	<p>Gianluca Cantoro IMS, FORTH [Researcher, Institute for Heritage Science, CNR, Rome] <i>Working on the mountains, working with the mountains. Archaeology in uplands</i></p>
11:10 – 11:40	<p>Kalliopi Baika Aix-Marseille Université <i>The Aigina harbour-city Project 2019-2023: Underwater archaeological research and interdisciplinary methodological issues</i></p>
11:40 – 12:00	<p>Short break</p>

Session 2: Health (Chairs: I. Talianidis, P. Poirazi)

12:00-12:30	<p>Eleftheria Zeggini Institute of Translational Genomics, Helmholtz Zentrum München, Germany <i>The genomic aetiology of osteoarthritis</i></p>
12:30-12:50	<p>Chiara Curra IMBB, FORTH <i>Targeting Plasmodium oocyst rupture for antimalarial strategies development</i></p>
12:50-13:10	<p>Thanos Metaxakis IMBB, FORTH <i>Neuronal ATG1 coordinates autophagy induction with physiological adaptations against impaired brain metabolism</i></p>
13:10-13:30	<p>Spyridon Chavlis IMBB, FORTH <i>Towards deep learning applications with biological dendrites</i></p>
13:30 – 14:00	<p>Short break</p>

Session 3: Sustainability (Chairs: S. Anastasiadis, M. Daletou)

14:00-14:30	<p>Antony J. Ryan, OBE Department of Chemistry and The Grantham Centre for Sustainable Futures, University of Sheffield, U.K. <i>Making science work for refugees and refugees work for science</i></p>
14:30-14:50	<p>Konstantinos Andrikopoulos ICE-HT, FORTH [Assoc. Professor, Department of Physics, Univ. of Patras] <i>Polymer nanocomposites for breathable applications</i></p>
14:50-15:10	<p>Eugene Skouras ICE-HT, FORTH <i>Simulation of transport and reaction processes in porous membranes</i></p>
15:10-15:30	<p>Emmanouil Glynos IESL, FORTH [Assist. Professor, Department of Materials Science and Technology, Univ. of Crete] <i>High performance solid polymer electrolytes for energy storage</i></p>
15:30 – 16:00	<p>Short break</p>

Session 4: Health 2 (Chairs: M. Antona, G. Filippidis)

16:00-16:30	<p>Thimios A. Mitsiadis Institute of Oral Biology, Faculty of Medicine, University of Zurich, Switzerland <i>Take a bite on 3D emulsion systems for dissecting Nerve Growth Factor (NGF) action in healthy, injured and regenerated teeth</i></p>
16:30-16:50	<p>Panos Sapountzis IACM, FORTH <i>How visual short-term memories are encoded in the brain?</i></p>
16:50-17:10	<p>Evangelia Gavgiotaki IESL, FORTH [Research Fellow, Harvard Medical School] <i>Nonlinear microscopy as diagnostic tool for the discrimination of activated T cells</i></p>
17:10-17:30	<p>Eleftherios Trivizakis ICS, FORTH <i>Artificial intelligence & medicine: Towards a deeply intertwined relation</i></p>

Wednesday, December 8, 2021

Session 5: Environment (Chairs: C. Aggelopoulos, E. Skarsoulis)

10:00-10:30	Klara Hernadi Institute of Physical Metallurgy, Metal Forming and Nanotechnology, University of Miskolc, Hungary <i>Photocatalytic materials and hollow structures</i>
10:30-10:50	Simos Papadimitropoulos IACM, FORTH <i>Imaging in waveguides</i>
10:50-11:10	Constantine Smaragdakis IACM, FORTH <i>Classification of acoustic and seismic signals</i>
11:10-11:30	Anastasios D. Koulouklidis IESL, FORTH <i>Intense terahertz waves and applications</i>
11:30 – 12:00	Short break

Session 6: Energy (Chairs: S. Neophytides, M. Daletou)

12:00-12:30	Karsten Reuter Fritz Haber Institute of the Max Planck Society, Berlin, Germany <i>Data-Enhanced Multiscale Theory of Operando Energy Conversion Systems</i>
12:30-12:50	Panagiotis Giotakos ICE-HT, FORTH <i>Electrochemical Impedance Spectroscopy analysis of Oxygen Reduction Reaction mechanism and energetics for Fuel Cells</i>
12:50-13:10	Nikolaos Samartzis ICE-HT, FORTH <i>Laser-assisted graphene growth for energy storage applications</i>
13:10-13:30	Ioanna Papavasileiou ICE-HT, FORTH <i>Biochar materials for electrochemical energy storage devices</i>
13:30-13:50	Ioannis Paradeisanos IESL, FORTH [INSA, Toulouse] <i>Engineering quantum states in atomically-thin semiconductors</i>
13:50 – 14:30	Short break

Session 7: From Innovation to Exploitation (Chairs: S. Anastasiadis, E. Stratakis)

14:30-15:00	<p>Aristos Doxiadis Partner Big Pi Ventures & Vice Chair of the National Council for Research and Innovation, Greece <i>Innovation in the real world</i></p>
15:00-15:20	<p>Simeon Tsintzos IESL, FORTH [QUBITECH, Athens, Greece] <i>Polaritonics in view</i></p>
15:20-15:40	<p>Vassilios Binas IESL, FORTH & PCNano Materials <i>Nanomaterials for healthy indoor/outdoor environments: The case of PCNano Materials</i></p>
15:40-16:00	<p>Christos Karamatsos IMS, FORTH <i>The history of oil exploration in Greece</i></p>
16:00-16:20	<p>Spyros Tzokas IMS, FORTH <i>Inter-political strategies of innovation in Greece during the 20th century: Intellectual property and technical standardization</i></p>
16:20 – 17:30	<p><i>Round Table Discussion</i></p>