

G. Lianis Auditorium, Heraklion, Crete

Friday, 15 July 2022

8.15 - 9.00	Registrations
PRESENTATIONS OF FORTH INSTITUTES	
<i>Chair: Dr. Konstantina Georgiadi, IMS</i>	
9:00 - 9:15	Presentation of FORTH Prof. Nektarios Tavernarakis, Chairman of the Board of Directors
9:15 - 9:25	Institute of Electronic Structure and Laser (IESL) Prof. Spiros Anastasiadis, Director
9:25 - 9:35	Institute of Molecular Biology and Biotechnology (IMBB) Prof. Ioannis Vontas, Director
9:35 - 9:45	Institute of Computer Science (ICS) Prof. Dimitris Plexousakis, Director
9:45 - 9:55	Institute of Applied & Computational Mathematics (IACM) Prof. Charalambos Makridakis, Director
9:55 - 10:05	Institute for Mediterranean Studies (IMS) Prof. Gelina Harlaftis, Director
10:05 - 10:15	Institute of Chemical Engineering Sciences (ICE-HT) Dr. Vassilios Burganos, Director
10:15-11:00	Coffee Break & Poster Session
Session I - Good Health, Well Being	
11:00 - 11:30	<i>Chair: Dr. George Tzagkarakis</i> <i>Institute of Computer Science</i> Keynote speech Perfecting Brain Scans: New Horizons Dr. Philippe Ciuciu Research Director, Co-Head of the Inria-CEA MIND Team CEA Saclay, NeuroSpin, France
11:30 - 11:35	Q & A
FORTH PRESENTATIONS	
11:35 - 11:50	<i>Dissecting pathogenesis of emerging respiratory infectious diseases: a bench to bedside approach</i> Prof. Georgios Chamilos Professor, University of Crete Affiliated Researcher, Fungal Immunology Institute of Molecular Biology & Biotechnology (IMBB)
11:50 - 11:55	Q & A
11:55 - 12:10	<i>Electronic plants as an innovative platform for reducing environmental health risk factors</i> Dr. Eleni Pavlopoulou Assistant Researcher, Hybrid Nanostructures Group Institute of Electronic Structure and Laser (IESL)
12:10 - 12:15	Q & A
12:15 - 13:45	Lunch

Session II – Climate, Environment, Energy, Sustainability	
13:45 - 14:15	<p><i>Chair: Dr. Christos Aggelopoulos</i> <i>Institute of Chemical Engineering Sciences</i></p> <p>Keynote speech <i>Sustainable Water Management: Global and Regional Challenges and Opportunities</i> Prof. Dionysios (Dion) Dionysiou Graduate Studies Director Department of Chemical and Environmental Engineering University of Cincinnati</p>
14:15 - 14:20	Q & A
FORTH PRESENTATIONS	
14:20 - 14:35	<p><i>Unraveling the elusive Oxygen Reduction Reaction electrokinetics and energetics in PEM Fuel Cells</i> Dr. Stylianos Neophytides Research Director, Energy - Environment Institute of Chemical Engineering Sciences (ICEHT)</p>
14:35 - 14:40	Q & A
14:40 - 14:55	<p><i>High-pressure technologies for the study of the deep marine biosphere</i> Dr. Evina Gontikaki Assistant Researcher, Environment & Circular Economy Institute of Geoenergy (IG)</p>
14:55 - 15:00	Q & A
15:00 - 15:15	<p><i>Earth Observation for Urban Climate and Resilience</i> Dr. Nektarios Chrysoulakis Research Director, Head of the Remote Sensing Lab Institute of Applied & Computational Mathematics (IACM)</p>
15:15 - 15:20	Q & A
15:20 - 15:50	<i>Coffee Break</i>

Session III – Cultural Heritage & Education

15:50- 16:20	<p><i>Chair: Dr. George Nikolopoulos</i> <i>Institute of Electronic Structure and Laser</i></p> <p>Keynote speech Science in Art Conservation and Education: the role of analysis in understanding and treating paintings Dr. Austin Nevin Head of the Department of Conservation The Courtauld, UK</p>
16:20 - 16:25	Q & A
FORTH PRESENTATIONS	
16:25 - 16:40	<p>Photonics for heritage science. Expanding the infrastructure, widening synergies Dr. Paraskevi Pouli Principal Application Scientist, Photonics for Heritage Science Group Institute of Electronic Structure and Laser (IESL)</p>
16:40 - 16:45	Q & A
16:45 - 17:00	<p>Digitization and preservation of traditional crafts Dr. Xenophon Zabulis Research Director, Computational Vision and Robotics Laboratory Institute of Computer Science (ICS)</p>
17:00 - 17:05	Q & A
17:05 - 17:20	<p>Astronomy education at IA-FORTH: the sky is not the limit! Panagiotis Evangelopoulos Public Outreach Officer Institute of Astrophysics (IA)</p>
17:20 - 17:25	Q & A
17:25 - 17:40	<p>“FORTHHistory 1983-2023”: The Project Dr. Spyros Tzokas Postdoctoral Researcher, History of Technology Institute for Mediterranean Studies (IMS)</p>
17:40 - 17:45	Q & A
17:45 - 19:00	Lab tour IMBB, IESL, ICS
19:00	Poster Session
21:00	Gala Dinner

PRESENTATIONS OF FORTH INSTITUTES & UNITS	
<i>Chair: Dr. George Nikolopoulos, IESL</i>	
9:00 - 9:10	Institute of Astrophysics (IA) Prof. Vassilios Charmandaris, Director
9:10 - 9:20	Institute of Geoenergy (IG) Prof. Nikolaos Pasadakis, Director
9:20 - 9:30	Biomedical Research Institute (BRI) Prof. Savvas Christoforidis, Director
9:30 - 9:40	Science and Technology Park of Crete (STEP-C) Dr. George Papamichail, Director
9:40 - 9:50	PRAXI Network Panagiotis Karniouras, Director
9:50 - 10:00	Crete University Press (CUP) Dionysia Daskalou, Director
10:00 - 10:10	Mathesis Dimitris Voudouris, Communication Specialist
10:10-10:45	<i>Coffee Break & Poster Session</i>
Session IV - Biomedicine	
10:45 - 11:15	<i>Chair: Dr. Carol Murphy</i> <i>Institute of Biomedical Research</i> <i>Keynote speech</i> <i>Ultra-high sensitivity mass spectrometry workflows for basic biology and biomedicine</i> <u>Dr. Matthias Mann</u> Director, Department of Proteomics and Signal Transduction Max Planck Institute of Biochemistry, Martinsried, Germany
11:15 - 11:20	Q & A
FORTH PRESENTATIONS	
11:20 - 11:35	<i>Polygenic risk scores for complex diseases</i> <u>Prof. Evangelos Evangelou</u> Associate Professor, University of Ioannina Affiliated Researcher Biomedical Research Institute (BRI)
11:35 - 11:40	Q & A
11:40 - 11:55	<i>The evolution of allosteric networks. How do polypeptides function?</i> <u>Dr. George Gouridis</u> Principal Researcher, Structural Biology, Biophysics - Nanobiotechnology Institute of Molecular Biology & Biotechnology (IMBB)
11:55 - 12:00	Q & A
12:00 - 12:15	<i>Learning treatment effects from multiple data</i> <u>Prof. Sofia Triantafillou</u> Assistant Professor, University of Crete Affiliated Researcher, Data Science Institute of Applied & Computational Mathematics (IACM)
12:15 - 12:20	Q & A

FORTH Synergy Grants 2020	
12:20 - 12:30	Advanced spectro-bathymetric mapping of shallow seafloor using UAV imagery and deep learning techniques (ACTYS) Dr. Dimitrios Alexakis Assistant Researcher, Satellite Remote Sensing and GIS Institute for Mediterranean Studies (IMS)
12:30 - 12:40	Agile Data Acquisition: Record Polarimetry & Quantum Optics measurements (AGILDA) Dr. Stefanos Papadakis Research Staff Scientist, Telecommunications and Networks Lab (TNL) Institute of Computer Science (ICS)
12:40 - 12:50	Animal Limb Morphogenesis (ANILIMO) Dr. Anastasios Pavlopoulos Assistant Researcher, Developmental Morphogenesis Lab Institute of Molecular Biology and Biotechnology (IMBB)
12:50 - 13:00	Reconstructing the Magnetic field of the Milky way via Astrophysical Techniques and Numerical Simulations (MAGMASIM) Dr. Georgios Pavlou Postdoctoral Researcher Institute of Astrophysics (IA)
13:00 - 13:10	Modelling neurological disorders using graphene-based neurovascular organoids derived from pluripotent human cells (NEUROPHENE) Dr. Christos G. Gkogkas Principal Researcher, Neurobiology Biomedical Research Institute (BRI)
"Theodore Papazoglou" FORTH Synergy Grants Evaluators Panel Discussion	
13:10-13:40	<i>Chair: Prof. Nektarios Tavernarakis</i> <i>Chairman of the Board of Directors, FORTH</i> <ul style="list-style-type: none"> • Euripides Stephanou, Professor Emeritus, University of Crete, Department of Chemistry, <i>Coordinator of the 1st Call of the Theodore Papazoglou FORTH Synergy Grants</i> • Spyridon Agathos, Professor Emeritus, Catholic University of Louvain, Faculty of Bioscience Engineering, <i>Coordinator of the 3rd & the 4th Calls of the Theodore Papazoglou FORTH Synergy Grants</i> • Anthony Ephremides, Distinguished University Professor Emeritus & Cynthia Kim Eminent Professor Emeritus of Information Technology University of Maryland College Park, ECE Department and Institute for Systems Research • Phaedon Kyriakides, Professor, Cyprus University of Technology, Department of Civil Engineering and Geomatics • Nikos Kyrpides, Senior Scientist, Berkeley Lab, Microbiome Data Science Group Leader, DOE Joint Genome Institute
13:40 - 15:00	Lunch
15:00 - 16:00	FORTH General Assembly Discussion Chair: Prof. Nektarios Tavernarakis
16:00 - 16:30	Poster Honors - Conclusions - Closing Remarks Dr. Konstantina Georgiadi (on behalf of the Organizing Committee)

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