



#### **ACAC 2024**

#### Program

# Day 1: Wednesday November 6th

8:30 - 9.00	Registration
9:00 – 10.00	Welcome address - Opening Remarks
	Plenary Session 1: ANALYTICAL CHEMISTRY
Chairs: A. Oikonomou, E. Gikas	
10:00 – 10:30	Michael Graetzel, Director of the Laboratory of Photonics and Interfaces, School of
PL-1	Chemistry, Ecole Polytechnique Fédérale de Lausanne, (EPFL), Switzerland
	"Molecular Photovoltaics and the Stunning Rise of Perovskite Solar Cells"
10:30 - 10:50	Nikolaos Thomaidis, Vice-Precident of NKUA Administration Council, Department
IL-1	of Chemistry, University of Athens, Greece
	"Alleviating the need of standards and Leveraging advances in High Resolution Mass
	Spectrometry for integrated, holistic environmental monitoring of emerging
	contaminants"
10:50 - 11:10	Spiros A. Pergantis, Environmental Chemical Processes Laboratory, Department of
IL-2	Chemistry, University of Crete, Greece
	"A Combination of Atomic and Molecular Mass Spectrometric Techniques for the
	Determination of Arsenolipid Compounds in Food of Marine Origin"
	11:10 - 12:00
	POSTER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK
	POSTERS P#1 – P#25
	Plenary Session 2: ENVIRONMENTAL CHEMISTRY
	Chairs: E. Bakeas, S. Karavoltsos
12:00 – 12:30	Dario Omanović, Laboratory for Physical Chemistry of Traces, Center for Marine
PL-2	and Environmental Research, Ruder Bošković Institute, Croatia
	"Multimethodological study of trace metal speciation in marine waters"
12:30 – 12:50	Nikolaos Mihalopoulos, Institute for Environmental Research and Sustainable
IL-3	Development, National Observatory of Athens
	"Climate change in the Eastern Mediterranean: Drivers and impacts"
12:50 - 13:10	Simos Malamis, Department of Water Resources and Environmental Engineering,
IL-4	School of Civil Engineering, National Technical University of Athens
	"Adopting Nature-based solutions to build water resilience"





13:10 - 14:30			
LUNCH BREAK			
	ORAL PRESENTATIONS, 14:30-15:30		
	Session 1: (n=6, 10min each)		
	Chairs: C. Kokkinos, E. Bakeas		
	Oral presentations: Analytical Chemistry		
	The second secon		
14:30 - 14:40	Anastasios Oikonomou, Department of Chemistry, University of Athens, Greece		
OP-1	"Applications of paper-based devices in (bio)analytical chemistry"		
14:40 - 14:50	Evangelos Gikas, Department of Chemistry, University of Athens, Greece		
OP-2	"Are MS/MS-Based Molecular Networks another solution for omics? An application		
	to a food authenticity challenge"		
14:50 - 15:00	Eleni Koukouviti, Department of Chemistry, University of Athens, Greece		
OP-3	"Lab-made conductive filament for the 3D printing of ready-to-use multiplexed		
	electrochemical sensors"		
	Oral presentations: Environmental Chemistry		
15:00 - 15:10	Nikolaos Katsikatsos, Department of Chemistry, University of Athens, Greece		
OP-4	"Autonomous Vehicles as an innovative monitoring strategy in environmental		
	studies"		
15:10 - 15:20	Sevasti Panagiota Kotsaki, Department of Chemistry, University of Athens, Greece		
OP-5	"SOA tracers in a background site in the Eastern Mediterranean: exploring		
	formation pathways"		
15:30 - 15:30	Georgios Katsouras, EYDAP SA		
OP-6	"Innovative monitoring of emerging micropollutants in Psyttalia WWTP and the		
	Saronikos Gulf Ecosystem"		
<b>DO</b>	15:30 – 16:30		
PO	STER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK		
	POSTERS P#1- P#25		
	Plenary Session 3: BIOCHEMISTRY		
	Chairs: E. Stratikos, E. Emmanouilidou		
16:30 – 17:00	Michal Bassani-Sternberg, Ludwig Institute for Cancer Research, Switzerland		
PL-3	"Antigen discovery for development of personalized cancer immunotherapy"		
17:00 – 17:20	Niki Chondrogianni, Institute of Chemical Biology (ICB), National Hellenic Research		
IL-5	Foundation (NHRF), Greece		
	"The proteasome as a key player in the progression of aging and age-dependent		
	diseases"		
17:20 – 17:40	George Leondaritis, Department of Pharmacology, Faculty of Medicine, School of		
IL-6	Health Sciences, University of Ioannina, Greece		





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	"Lipid Signalling in Health and Disease"	
	17:40 - 18:00	
POSTER VIEWING, EXHIBITION AND NETWORKING		
	ORAL PRESENTATIONS, 18:00-19:00	
	Session 2: (n=6, 10min each)	
	Chairs: E. Emmanouilidou, N. Tsoureas	
	Oral presentations: Biochemistry	
18:00 - 18:10	Efstratios Stratikos, Department of Chemistry, University of Athens, Greece	
OP-7	"A conformation and substrate-selective small molecule inhibitor of Insulin	
	Regulated Aminopeptidase provides insight into the intricacies of the enzyme's	
	catalytic cycle"	
18:10 - 18:20	Evangelia Emmanouilidou, Department of Chemistry, University of Athens,	
OP-8	Greece	
	"Astrocyte calcium signaling can protect against neuroinflammation induced by $\alpha$ -	
	synuclein oligomers"	
18:20 - 18:30	Galateia Georgaki, Department of Chemistry, University of Athens, Greece	
OP-9	"Polymorphic positions 349 and 725 of the autoimmunity protective allotype 10 of	
	ER aminopeptidase 1 are key in determining its unique enzymatic properties"	
18:30 - 18:40	Martha Nikopaschou, Department of Chemistry, University of Athens, Greece	
OP-10	"ERAP1 as a regulator of the immunopeptidome, proteome and cellular	
	homeostasis of cancer cells"	
Oral presentations: Inorganic Chemistry		
18:40 – 18:50	Irene Ligielli, Department of Chemistry, University of Athens, Greece	
OP-11	"Trigonal Planar Chromium (II) N-Heterocyclic Carbene Complexes as Potential	
01 11	Mononuclear Single Molecule Magnets"	
18:50 – 19:00	Ioannis Vagiakos, Department of Chemistry, University of Athens, Greece	
OP-12	"Taming arenes: A comparative and systematic study"	
01 12	19:00-20:00	
Free	nShield4Med Session on Food Safety Mycotoxins & Climate change,	
EU funded project,		
(Grant agreement ID: 101079173)		
(Grant agreement id. 1010/31/3)		
20:30 – 22:00		
	Faculty Dinner	

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## Day 2: Thursday November 7<sup>th</sup>

0.15 10.00	Cativias Viakias DhD. Furansan Dassarch Fusautiva Aganay Balgium		
9:15 – 10:00	Sotirios Kiokias, PhD, European Research Executive Agency, Belgium		
	"EU research funding opportunities (Horizon Europe)/Marie-Sklodowska		
	Curie Program (MSCA) with focus on Staff Exchanges Action"		
	Plenary Session 4: INORGANIC CHEMISTRY		
	Chairs: C. Mitsopoulou, P. Kyritsis		
10:00 - 10:30	Andreas Steffen, Department of Chemistry and Chemical Biology, Technical		
PL-4	University of Dortmund, Germany		
	"Our journey towards molecular single-photon sources – Fast and bright but still		
	Dark "		
10:30 - 10:50	Dominik Halter, Inorganic and Metal-Organic Chemistry, TUM (Technical		
IL-7	University of Munich), Germany		
	"Transition Metal Catalyzed Electro-Organic Synthesis with Water & Ex Situ		
	Electrosynthesis for Unique Selectivity"		
10:50 - 11:10	Carole Duboc, Department of Molecular Chemistry, University of Grenoble, France		
IL-8	"A bio-inspired approach for electrocatalytic H <sub>2</sub> production"		
	11:10 - 12:00		
	POSTER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK		
	POSTERS P#26 – P#63		
	Plenary Session 6: FOOD CHEMISTRY		
	Chairs: C. Proestos, V. Valdramidis		
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12:00 - 12:30	Jianbo Xiao, Adjunct Professor at Jinan University (China), Department of Food		
PL-5	Science and Technology, University of Vigo, Spain		
	"Formation of nitrogenous flavonoid derivatives by reacting with amino acids"		
12:30 - 12:50	Dejan Stojković, Department of Plant Physiology, University of Belgrade, Serbia		
IL-9	"Mushrooms as natural resources of functional food and biologically active		
	compounds"		
12:50 - 13:10	Kostas Biliaderis, Department of Food Science and Technology, Agricultural School		
IL-10	of the Aristotle University of Thessaloniki, Greece		
	"Cereal grain polysaccharides as functional food ingredients: structure-property		
	relations"		
13:10 - 14:30			
LUNCH BREAK			





	ORAL PRESENTATIONS, 14:30-15:30		
	Session 3: (n=6, 10min each)		
	Chairs: E. Efthimiadou, K. Methenitis		
Oral presentations: Inorganic Chemistry			
14:30 - 14:40	Patrina Paraskevopoulou, Department of Chemistry, University of Athens, Greece		
OP-13	"Polyurea-crosslinked biopolymer aerogels - novel nanostructured materials for		
	diverse applications"		
14:40 - 14:50	Nikolaos Tsoureas, Department of Chemistry, University of Athens, Greece		
OP-14	"Unexpected Reactivity of a Low Valent Titanocene with Azides"		
14:50 - 15:00	Evangelos Papangelis, Department of Chemistry, University of Athens, Greece		
OP-15	"New Pyridine Dicarbene Pincer Ligands with Ring Expanded N-Heterocyclic		
	Carbene Donors and their Transition Metal Complexes"		
15:00 - 15:10	Evangelia Tsitsou, Department of Chemistry, University of Athens, Greece		
OP-16	"Evaluation of Fe:Eu nanoparticles as imaging probes of cervical cancer cells"		
15:10 - 15:20	Charalampos Papapanagis, Department of Chemistry, University of Athens,		
OP-17	Greece		
	"Exploring New Tripodal N-Heterocyclic Carbene Ligands Towards High- and Low-		
	Valent Iron Complexes"		
15:20 - 15:30	Stamatis Passadis, Department of Chemistry, KU Leuven, Belgium		
OP-18	"Revitalisation of Group IV metal-oxo clusters: Synthetic approaches, structural		
	motifs and applications"		
	15:30 – 16:30		
PO:	STER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK		
	POSTERS P#26 - P#63		
	Plenary Session 6: PHYSICAL CHEMISTRY		
	Chairs: D. Tzeli, G. Souliotis		
16:30 – 17:00	Brianna Heazlewood, University of Liverpool, United Kingdom		
PL-6	" New methods for studying ions and radicals at low temperatures "		
17:00 - 17:20	Francesco Allegretti, Privat Dozent, Technical University of Munich, Germany		
IL-11	"On-surface synthesis and post-synthetic modification of low-dimensional		
	organometallic networks "		
17:20 - 17:40	David A. Duncan, University of Nottingham and Diamond Light Source, United		
IL-12	Kingdom		
	"Understanding the structure of two-dimensional films using X-ray standing waves"		
17:40 – 18:00			
POSTER VIEWING, EXHIBITION AND NETWORKING			





ORAL PRESENTATIONS, 18:00-19:00	
Session 4: (n=6, 10 min each)	
Chairs: C. Proestos, V. Valdramidis	
	Oral presentations: Physical Chemistry
18:00 – 18:10	Dimitra Tzeli, Department of Chemistry, University of Athens, Greece
OP-19	"Breaking covalent bonds in the context of the many-body expansion"
Oral presentations: Food Chemistry	
18:10 - 18:20	Mirjana B. Pešić, University of Belgrade - Faculty of Agriculture, Serbia "Goat milk
OP-20	proteins as a promising ingredient for functional food"
18:20 - 18:30	SHIYE LIN, Jinan University (China), Department of Food Science and Technology,
OP-21	University of Vigo, Spain
	"The stability and degradation products of polyhydroxy flavonols in boiling water"
18:30 - 18:40	Wenqi Huang, Jinan University (China), Department of Food Science and
OP-22	Technology, University of Vigo, Spain
	"Stability and degradation mechanism of (-)-epicatechin in thermal processing"
18:40 - 18:50	Pelagia Lekka, Department of Chemistry, University of Athens, Greece
OP-23	"Metabolic Responses to Acute Wine Consumption: A Time-Dependent Nutri-
	Metabolomic Study of Phenolic Metabolites using High-Resolution Mass
	Spectrometry"
18:50 - 19:00	Evmorfia Athanasopoulou, Agricultural University of Athens, Department of Food
OP-24	Science and Human Nutrition, Greece
	"ICHTHYS: Optimization of novel value chains for fish and seafood by developing an
	integrated sustainable approach for improved quality, safety and waste reduction"
19:00-20:00	
NanoCosmos Session: Nanoencapsulation of bioactive compounds from plant by products to produce	
sensitive skin cosmetics,	
EU funded project (Grant agreement ID: 101086323)	
20:00 – 22:00, ACAC 2024 Reception (on site)	

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## Day 3: Friday November 8<sup>th</sup>

Plenary Session 7: ORGANIC CHEMISTRY	
Chairs: G. Vougioukalakis, T. Mavromoustakos	
10:00 - 10:30	Thomas Carell, Ludwig Maximilian University Munich, Germany
PL-7	" Non-Canonical Nucleosides and Click Modification of Nucleic Acids "
10:30 - 10:50	Konstantinos Neohoritis, Department of Chemistry, University of Crete, Greece
IL-13	" Access to high rotational barrier atropisomers "
10:50 - 11:10	Christos Stathakis, Department of Chemistry, University of Crete, Greece
IL-14	" A Special Case of Divergent Synthesis "
11:10 – 12:00	
POSTER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK	
	POSTERS #64-84
	Plenary Session 8: INDUSTRIAL CHEMISTRY
	Chairs: M. Chatzichristidi, M. Pitsikalis
12:00 - 12:30	Marinos Pitsikalis, Department of Chemistry, University of Athens, Greece
PL-8	"Inorganic Chemistry/Polymer Chemistry: A success story
	The case of coordination polymerization of isocyanates employing half-titanocene
	complexes"
12:30 - 12:50	Panagiota Petrou, NCSR "Demokritos", Greece
IL-15	"Optical immunosensors: Analytical tools with many application "
12:50 - 13:10	Stergios Pispas, Theoretical and Physical Chemistry Institute, NHRF, Greece
IL-16	"Novel synthetic copolymers for creating biohybrid nanostructures"
	13:10 - 14:30
	LUNCH BREAK
	ORAL PRESENTATIONS, 14:30-15:30
	Session 5: (n=6, 10min each)
	Chairs: M. Chatzichristidi, T. Mavromoustakos
	Oral presentations: Organic Chemistry
14:30 - 14:40	Georgios C. Vougioukalakis, Department of Chemistry, University of Athens,
OP-25	Greece
	"Multicomponent Reactions: Creating Complexity via Sustainable Catalytic
	Transformations"
14:40 - 14:50	Victoria Magrioti, Department of Chemistry, University of Athens, Greece





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OP-26	"Microwave-assisted and base-dependent synthesis of γ-lactones or esters using N-
	heterocyclic carbenes as organocatalysts"
14:50 - 15:00	Nikitas Georgiou, Department of Chemistry, University of Athens, Greece
OP-27	"Chalcones and 4-hydroxy-2-quinolinone-triazole hybrid derivatives a, b and c as
	potential anti-inflammatory agents"
Oral presentations: Industrial Chemistry	
15:00 – 15:10 Iren G. Stavrakaki, Department of Chemistry, University of Athens, Greece	
OP-28	"Complexation of anticancer Pt-drugs on Polymers containing poly(L-Histidine)"
15:10 - 15:20	Athanasia Fouka, Department of Chemistry, University of Athens, Greece
OP-29	"Optimization of hydrothermal synthesis of copper oxide on flexible substrates"
15:20 - 15:30	Nikolaos V. Plachouras, Department of Chemistry, University of Athens, Greece
OP-30	"Statistical copolymers of N–Vinyl Pyrrolidone and 2–Chloro Ethyl Vinyl Ether via
	Radical RAFT Polymerization as scaffolds for the synthesis of complex
	macromolecular architectures"
	15:30 - 16:30
POS	STER VIEWING, EXHIBITION AND NETWORKING COFFEE BREAK
POSTERS P#64 – P#84	
16:30-17:30	
Closing Ceremony	
Best poster awards – Best oral presentation awards	

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