

Υβριδική Ημερίδα Ελληνικής Εταιρείας Έρευνας Αερολυμάτων

Παρασκευή 16 Μαΐου 2025

Αίθουσα Μαθηματικού Τμήματος, Πανεπιστήμιο Κρήτης, Ηράκλειο

09:40 – 9:55	Έναρξη	N. Μιχαλόπουλος (Πρόεδρος EEEA)
	Invited presentation	Chairperson: K. Eleftheriadis
9:55 – 10:30	Particulate Matter in Los Angeles; sources, trends, chemical composition and toxicity : Lessons learned based on almost 30 years of research and recommendations moving forward	Prof. Constantinos Sioutas Fred Champion Professor, School of Engineering, University of Southern California
	Contributed presentations (A)	Chairperson: C. Kaltsonoudis
10:30 – 10:45	Exploring the Formation and Toxicity of Secondary Particles in Gasoline Vehicle Emissions	Georgios Tsakonas , R. Stamatiou, K. Korhonen, U. Makinen, P. Marjanen, P. Simonen, J. Keskinen, K. Elihn, A. Lazou, and Z. Samaras, Laboratory of Applied Thermodynamics, Aristotle University, Thessaloniki (WG 1)
10:45 – 11:00	Temperature effects on toluene SOA properties	Evangelia Kostenidou , C. Dubois, E. J. Horchler, K. O. M. Åbom, D. Thomsen, M. M. Jensen, E. M. Iversen, and M. Bilde, Department of Environmental Engineering, Democritus University of Thrace, Xanthi (WG 5)
11:00 – 11:15	Smoke on the water at Ioannina, Greece: emissions and processing of wood burning	Kalliopi Petrinoli , I. Stavroulas, M. Desservettaz, E. Liakakou, G. Grivas, N. Hatzianastassiou, E. Bourtsoukidis, A. Bougiatioti, and N. Mihalopoulos, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, (WG 2, accepted 2025 EAC oral)
11:15 – 11:30	Properties of light-absorbing carbonaceous aerosols at a regional background site in NW Greece	Martha Seraskeri , N. Kontos, M. I. Michalopoulos, P. Kardolama, M.V. Karava, I. E. Tasiopoulou, S.K. Garas,

		R.-E. P. Sotiropoulou, D.G. Kaskaoutis, and Efthimios Tagaris, Department of Chemical Engineering, University of Western Macedonia and Air & Waste Management Laboratory, Polytechnic School, University of Western Macedonia (WG 2, accepted 2025 EAC poster)
11:30 – 11:45	Performance evaluation of a portable optoacoustic sensor for Black carbon in lab conditions	Ioannis Raptis , N. Kousias, L. Haedrich, U. Stahl, V. Ntziachristos, and L. Ntziachristos, Laboratory Applied Thermodynamics, Aristotle University of Thessaloniki (WG 3, remote presence)
11:45 – 12:15	Coffee Break	
12:15-12:30	Contributed presentations (B) Harmonization of MPSS instruments with respect to data inversion bias by intercomparison against a reference MPSS	Chairperson: L. Diapouli Stergios Vratolis , J. Ondracek, P. Roztočil, V. Zdímal, and K. Eleftheriadis, ENRACT, Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Centre for Scientific Research “Demokritos” (WG 3)
12:30 – 12:45	Comparison of incremental machine learning methods and graph neural networks for the on-site calibration of air quality low-cost sensors	Ourania Gkavezou , E. Bagkis, T. Kassandros, and K. Karatzas, Environmental Informatics Research Group, School of Mechanical Engineering, Aristotle University of Thessaloniki (WG 3)
12:45 – 13:00	Continuous chemical characterization and source apportionment of ultrafine particulate matter (PM0.1) in an urban and a background site	Georgia A. Argyropoulou , C.N. Vasilakopoulou, K. Florou, C. Kaltsonoudis, A. Matrali, A. Aktypis, M. Georgopoulou, K. Seitanidi, C. Christopoulou, P. Kalkavouras, N. Mihalopoulos and S.N. Pandis,

		Institute of Chemical Engineering Sciences, ICE-HT/FORTH, Patras and Department of Chemical Engineering, University of Patras (WG 3)
13:00 – 13:15	Characterization of ultrafine particle number concentration and size distribution in the school environment	Stavroula Katsikari , V. Vassilatou, K. Granakis, R. Pimenta, K. Oliveira, S. M. Almeida, D. K. Henderson, R.M.W. Ferguson, H. Salonen, K. Eleftheriadis, and E. Diapouli, INRASTES, National Centre for Scientific Research “Demokritos” (WG 4)
13:15 – 13:30	Superparamagnetic Nanoparticles for drug delivery by aerosol spray synthesis	A. Bakratsa, Evdokia Gkagkari , V. Zaspalis, and G. Kastrinaki, Chemical Process and Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH) (WG 1, accepted 2025 EAC oral)
13:30 – 13:45	Predicting and parameterizing the glass transition temperature of atmospheric organic components via molecular dynamics simulations	Panagiota Siachouli , V.G. Mavrantzas, and S.N. Pandis, Department of Chemical Engineering, University of Patras, Patras and Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras (WG 5)
13:45 – 14:00	The regional air quality measurement network in Crete- a collaborative initiative between academia and regional authorities (ΣΧΕΔΙΑ ΚΡΗΤΗΣ)	Nikos Kalivitis , F.A. Kozonaki, E. Stergiou, K. Papoutsidaki, K. Tavernaraki, G. Kouvarakis, M. Tsagaraki, N. Mihalopoulos, S. E. Chatoutsidou, E. Chalvatzaki, M. Lazaridis, E. Kargaki, M. Kandilogiannaki, and M. Kanakidou ECPL, Department of Chemistry, University of Crete, (not submitted to 2025 EAC)
14:00 – 14:45	Lunch Break	

14:45 – 16:00	Παρουσίαση Πόστερ (15)	Chairperson: G. Kastrinaki
16:00 – 17:30	Γενική συνέλευση ΕΕΕΑ (α) Οικονομικός απολογισμός (β) Υποτροφίες ΕΕΕΑ (γ) Περιοδικό Aerosol Research (δ) Ιστοσελίδα (ε) Συνδρομή μελών (στ) Καλοκαιρινό σχολείο (ζ) Διαδικτυακές ομιλίες (η) Social media (θ) Άλλα θέματα	Προεδρεύουσα: Ε. Παπαιωάννου α) Γ. Καστρινάκη β) Γ. Δροσινός γ) Λ. Διαπούλη δ) Γ. Καστρινάκη ε) Ν. Μιχαλόπουλος στ) Ν. Μιχαλόπουλος ζ) Χ. Καλτσονούδης η) Γ. Καστρινάκη θ) Ν. Μιχαλόπουλος

Posters

1. “Atmospheric ions indicating continuous new particle formation in the Mediterranean coastal environment”, N. Kalivitis, **S.E. Markoulakis**, P. Kalkavouras, V. M. Kerminen, M. Kulmala, and M. Kanakidou, Environmental Chemical Processes Laboratory (ECPL), Department of Chemistry, University of Crete (WG 2, accepted 2025 EAC poster) (14:45-14:50)
2. “Urban vs. Suburban PM₁₀ Organic Aerosols fingerprints in an Eastern Mediterranean medium-sized coastal city”, **E. Stergiou**, A.C. Chatziioannou, S.A Pergantis, and M. Kanakidou, ECPL, Department of Chemistry, University of Crete, Heraklion and CSTACC, ICE-HT, FORTH, Patras (WG 2) (14:50-14:55)
3. “Long term variability of BC and BrC at the regional background site of Finokalia, Crete”, **A. Gkogkiasvili**, D.G. Kaskaoutis, G. Kouvarakis, N. Kalivitis, M. Kanakidou, and N. Mihalopoulos, ECPL, Department of Chemistry, University of Crete (WG2, accepted 2025 EAC poster) (14:55-15:00)
4. “Levels of particulate Polycyclic Aromatic Compounds and their Carcinogenic Risk in an urban center of Greece: A Three-Year Study”, **K. Tavernaraki**, I. Tsiodra, K. Papoutsidaki, D. Paraskevopoulou, G. Grivas, A. Bougiatioti, C. Parinos, G. Bardis, M. Kanakidou, and N. Mihalopoulos, ECPL, Department of Chemistry, University of Crete, Heraklion and IERSD, National Observatory of Athens, P. Penteli, Athens (WG 4) (15:00-15:05)
5. “Transport and air pollution exposure around schools”, **C. Mitsakou**, R. Chamberlain, O.-E. Jutila, A. Doutsis, S. Dimitroulopoulou, and K. Exley, Air Quality and Public Health, Environmental Hazards and Emergencies Department, UK Health Security Agency, UK (WG 4, remote presence) (15:05-15:10)
6. “Impact of smoking regime (ISO/HCl) on the emissions of PM and carbonyls of new tobacco products”, **E. Zervas**, N. Matsouki, C. Tsipa, M. Markygianni, Z. Gareiou, and A. Tseliou, Hellenic Open University, Patra (WG 4, accepted 2025 EAC poster) (15:10-15:15)
7. “Particle emissions from dry herbs vaping”, **E. Zervas** and N. Matsouki, Hellenic Open University, Patra (WG 4, accepted 2025 EAC poster) (15:15-15:20)
8. “Particle emissions from the use of tobacco products”, **E. Zervas**, Ch. Tsipa, N. Matsouki, M. Makrygianni, Z. Gareiou, and A. Tseliou, Hellenic Open University, Patras (WG 4, accepted 2025 EAC poster) (15:20-15:25)
9. “Detection of Saharan Dust Events by Aerosol Optical Properties and Radiative Forcing at the Helmos Hellenic Atmospheric Aerosol & Climate Change (HAC²) Station”, **K. Granakis**, M. Gini, P. Fetfatzis, S. Vratolis, C.G Tzanis, E. Andrews, and K. Eleftheriadis, ENvironmental Radioactivity & Aerosol Technology for atmospheric & Climate Impact

Lab, NCSR Demokritos and Climate and Climatic Change Group, Section of Environmental Physics and Meteorology, Department of Physics, National and Kapodistrian University of Athens (WG 5, accepted 2025 EAC poster) (15:25-15:30)

10. "Molecular dynamics study of iron nanoparticle formation in Aerosol Spray Pyrolysis (ASP)", **A. Darzi**, G. Kastrinaki, N. Vlachos, R. He, K. H. Luo³, and S. Rigopoulos, Department of Mechanical Engineering, Imperial College London, London (WG 5, remote presence) (15:30-15:35)
11. "Predictions of homogeneous nucleation rate in laminar and turbulent flows", **N. Tsimpliaris Kagiara**s, M. Pilou, Y. Drossinos, M. Lazaridis, and D. Mitrakos, School of Mechanical Engineering, National Technical University of Athens (WG 5, accepted 2025 EAC poster, remote presence) (15:35-15:40)
12. "Regional versus local dust contribution to PM10 mass at a Coastal Urban site: The case of Heraklion, Crete Greece", **M. Tsagkaraki**, F.A. Kozonaki, E. Stergiou, K. Papoutsidaki, K. Tavernarakis, G. Kouvarakis, N. Kalivitis, N. Mihalopoulos, and Kanakidou, ECPL, Department of Chemistry, University of Crete (Not submitted to 2025 EAC) (15:40-15:45)
13. "Levels, sources and SOA Formation Potential of atmospheric BTEX at a coastal urban site: The case of Heraklion, Crete, Greece", **E.P. Raptaki**, F.A. Kozonaki, G. Kouvarakis, N. Kalivitis, E. Liakakou, M. Kanakidou, and N. Mihalopoulos, ECPL, Department of Chemistry, University of Crete (Not submitted to 2025 EAC) (15:45-15:50)
14. "Scattering aerosol characteristics and identification of aerosol types at a continental background site (Kozani) in NW Greece", **M.I. Michalopoulos**, P. Kardolama, M. Seraskeri, M.V. Karava, N. Kontos, I.E. Tasiopoulou, S.G. Garas, R.E.P. Sotiropoulou, D.G. Kaskaoutis, and E. Tagaris, Department of Chemical Engineering, University of Western Macedonia, Kozani and Air & Waste Management Laboratory, Polytechnic School, University of Western Macedonia, Kozani (Not submitted to 2025 EAC) (15:50-15:55)
15. "Evaluation of IASI dust-related products using ground based remote sensing instruments", **C. Biskas**, K. Michailidis, M-E. Koukouli, G. Peletidou, and D. Balis, Aristotle University of Thessaloniki (15:55-16:00)