



ARISTOTLE
UNIVERSITY OF
THESSALONIKI

Central and Eastern European Conference on Health and the Environment (CEECH)

*Seeking Solutions for Environmental Exposures and Disease Risks
Thessaloniki, Greece - July 15 - 19, 2024*

Venue: Aristotle University Research Dissemination Center (KEDEA)
September 3 Campus, Thessaloniki 546 36

MONDAY - JULY 15, 2024 PRECONFERENCE WORKSHOPS

All Preconference workshops will be held in the Aristotle University Research Dissemination Center (KEDEA) September 3 Campus, Thessaloniki 546 36

10:30 Registration

11:00 International Opportunities, Career Development Workshop

Moderator: Dr. Angela M. Gutiérrez, University of Kentucky

Presenters:

Dr. Nikiforos Stamatiadis, University of Kentucky

Dr. Michael Bloom, George Mason University

Panel with Fulbright Scholars

Dr. Nikiforos Stamatiadis, University of Kentucky

Dr. Michael Bloom, George Mason University

Dr. Bernhard Hennig, University of Kentucky

Adjourn for Lunch at 13:00

13:00 Lunch - 2 minute walk to Café

14:00 Human Health Risk Assessment Workshop

Moderators: Dr. John McKernan, USEPA, and Dr. Kelly G. Pennell, University of Kentucky

14:10 Overview of human risk assessment

Dr. Kyoungju Choi, United States Environmental Protection Agency

14:45 Overview of chemical mixtures risk assessment

Dr. Glenn Rice, United States Environmental Protection Agency

15:30 Coffee Break

Introduction to toxicological dose-response assessment and benchmark dose modeling

Dr. Shana White, United States Environmental Protection Agency

Principles and application of read-across in human health

Dr. Lucina Lizarraga, United States Environmental Protection Agency

Adjourn at 17:30

MONDAY – JULY 15, 2024

17:00 Registration

-19:30 Location: Aristotle University Research Dissemination Center (KEDEA), September 3 Campus, Thessaloniki 546 36

19:00 Opening Reception – 2 minute walk to Café

TUESDAY – JULY 16, 2024

Main Conference sessions will be held in the Aristotle University Research Dissemination Center (KEDEA) September 3 Campus, Thessaloniki 546 36

8:00 Registration (All day)

8:30 Opening Remarks and Orientation to the Conference

Welcome to the 2024 Central and Eastern European Conference on Health and the Environment

Dr. Michelle Heacock, Director and Chief of the Hazardous Substances Research Branch at the National Institute of Environmental Health Sciences (via video) (USA)

Professor Kyros Yakinthos, Vice Rector of Research and Innovation, Aristotle University of Thessaloniki (Greece)

Dr. Kelly G. Pennell, Director of the University of Kentucky Superfund Research Center, University of Kentucky, 2024 CEECHE Co-Chair(USA)

Dr. Efstathios Oikonomou, Professor, Aristotle University of Thessaloniki, 2024 CEECHE Co-Chair (Greece)

9:10 Session 1: Exposomic Tools and Biostatistical Algorithms for Environmental Health – Chairs: Iulia Neamtii (Romania) and Michal Toborek (USA)

KEYNOTE The application of the human exposome in children's health and environment studies.
Dr. Konstantinos Makris, Cyprus University of Technology (Cyprus)

9:40 Development and application of a hybrid solid-liquid express extraction (SLEE) method for profiling the human adipose tissue exposome
Dr. Amith Maroli, Icahn School of Medicine at Mount Sinai (USA)

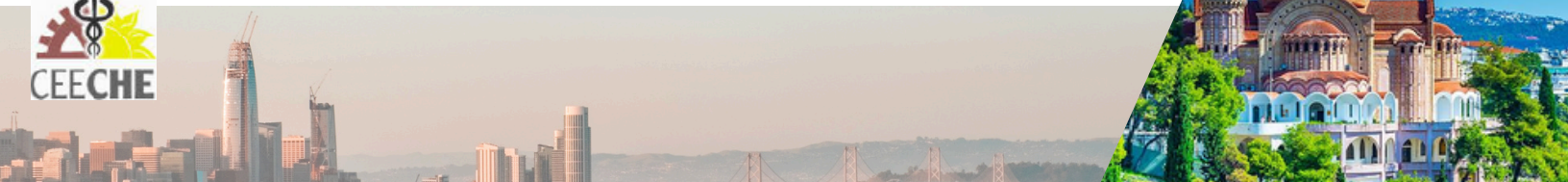
10:00 Finger-prick blood biomonitoring from home: measuring chemical exposures in a geographically diverse United States preconception cohort
Dr. Lauren Petrick, Sheba Medical Center (Israel)

10:20 Coffee Break

10:40 The Cypriot children's health and environment observatory
Corina Konstantinou, Cyprus University of Technology (Cyprus)

11:00 Health effects of climate change should be a part of medical curriculum – presentation of a new project CLIMATEMED
Dr. Anna Paldy, National Center for Public Health and Pharmacy (Hungary)

11:20 Predicting hypoxia and estimating the interactions of metabolites using machine learning
Dr. Jai Woo Lee, Korea University (Korea)



11:40 Coffee Break

**11:50 Session 2: Emerging Topics in Environmental Health
- Chairs: Eugen Gurzau (Romania) and Kelly G. Pennell (USA)**

KEYNOTE Unraveling the interplay of combustion-derived particulate matter, microbiome dysbiosis, and epithelial repair in influenza severity.
Dr. Stephania Cormier, Louisiana State University (USA)

12:20 Partnering for translation: Stories from the field
Dr. Anna Hoover, University of Kentucky (USA)

12:40 Critical minerals: What are they, why are they critical, and what is EPA's involvement with respect to them
Dr. John McKernan, United States Environmental Protection Agency (USA)

13:00 Lunch - 2 minute walk to Café

**14:00 Session 3: Understanding Environmental and Human Health Impacts of Complex Legacy and Emerging Contaminant Exposures
- Chairs: Efstathios Oikonomou (Greece) and Michael Petriello (USA)**

KEYNOTE PFAS environmental cycling: The role of landfills
Dr. Angela M. Gutiérrez, University of Kentucky (USA)

14:30 Impact of climate change on drinking water quality study of emerging disinfection by-products and possible health risk
Argyri Kozari, Aristotle University of Thessaloniki (Greece)

14:50 Community air pollution monitoring in the Louisiana industrial corridor
Dr. Slawo Lomnicki, Louisiana State University (USA)

15:10 Indoor VOC emissions influenced by polymer additives in 3D printing
Dr. Souhail Al-Abed, United States Environmental Protection Agency (USA)

15:30 Public health issue: Amoeboid protists and their role in the environment in relation to water quality in distribution systems
Dr. Katarína Trnková, Matej Bel University (Slovakia)

Adjourn at 15:50 pm

WEDNESDAY - JULY 17, 2024

Main Conference sessions will be held in the Aristotle University Research Dissemination Center (KEDEA) September 3 Campus, Thessaloniki 546 36

8:00 Check-in

**8:30 Session 4: Sampling and Analytical Approaches for Legacy and Emerging Environmental Contaminants
- Chairs: Sorin Gurzau (Romania) and Souhail Al-Abed (USA)**

KEYNOTE Advanced spectrometric techniques for the analysis of emerging contaminants and transformation products: Target, suspect, and non-target approaches
Dr. Dimitra Lambropoulou, Aristotle University of Thessaloniki (Greece)

Session 4 Continues

- 9:00 Suspect screening for occurrence of potentially persistent and mobile organic compounds (PMOCs) in the environment: The case study of Tiamulin - degradability, transformation and toxicity assessment
Kyriaki Anagnostopoulou, Aristotle University of Thessaloniki (Greece)
- 9:20 Evaluating data processing workflows to enhance non-target analysis revealing emerging contaminants in landfill leachates
Lelouda-Athanasia Koronaïou, Aristotle University of Thessaloniki (Greece)
- 9:40 Exploring environmental insights through high-resolution mass spectrometry: Tracking OPFRs in WWTPs in Thessaloniki, Greece
Styliani Petromelidou, Aristotle University of Thessaloniki (Greece)
- 10:00 Novel sorbent-based sample preparation processes as green alternatives for the extraction of emerging contaminants
Dr. Vasileios Alampanos, Aristotle University of Thessaloniki (Greece)

10:20 Coffee Break

10:50 Session 5: Toxic Mechanisms of Legacy and Emerging Pollutants - Chairs: Stephania Cormier (USA) and Bernhard Hennig (USA)

- KEYNOTE Circadian control of cerebrovascular toxicity of environmental toxicants
Dr. Michal Toborek, University of Miami (USA)
- 11:20 Heterocyclic amines disrupt lipid homeostasis in cryopreserved human hepatocytes
Dr. David Hein, University of Louisville (USA)
- 11:40 Exposure of Ldlr^{-/-} mice to a PFAS mixture and outcomes related to circulating lipids, bile acid excretion, and the intestinal transporter ASBT
Dr. Michael Petriello, Wayne State University (USA)
- 12:00 Mechanisms of Cadmium mediated dysfunctional resolution of inflammation
Dr. Ranu Surolia, University of Alabama at Birmingham (USA)
- 12:20 Protein misfolding acts via TRIM29 to orchestrate the molecular pathogenesis of Lewisite-induced skin injury in porcine and murine models
Dr. Mohammad Athar, University of Alabama at Birmingham (USA)
- 12:40 Vascular dysfunction induced by inhalation of environmentally persistent free radicals (EPFRs) is regulated by AhR activation in alveolar cells
Dr. Tammy Dugas, Louisiana State University (USA)

13:00 Lunch - 2 minute walk to Café

14:00 Session 6: Removal of Legacy and Emerging Contaminants from Environmental Systems - Chairs: Dimitra Lambropoulou (Greece) and Slawo Lomnicki (USA)

- KEYNOTE Preventing and reducing exposures to volatile organic compounds from aging sewer systems located near contaminated sites
Dr. Kelly G. Pennell, University of Kentucky (USA)
- 14:30 Sulfate radical-based advanced oxidation processes for the removal of pharmaceuticals in aqueous matrices
Angeliki Maliogka, Aristotle University of Thessaloniki (Greece)

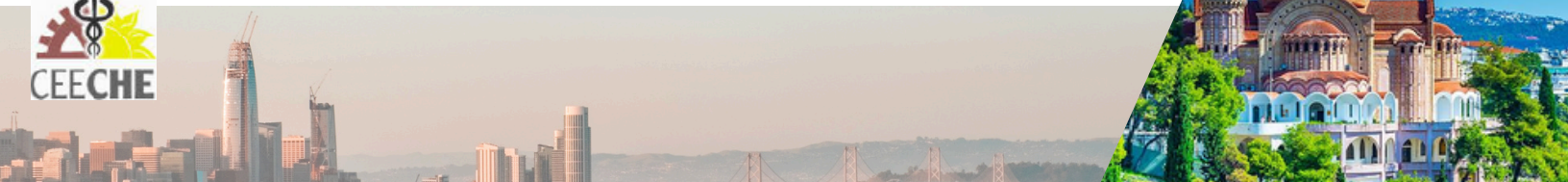
Session 6 Continues

- 14:50 Bioremediation of mine-influenced waters
Dr. Souhail Al-Abed, United States Environmental Protection Agency (USA)
- 15:30 Removal of emerging contaminants by advanced oxidation processes: The case study of fluconazole and voriconazole
Periklis Parthenidis, Aristotle University of Thessaloniki (Greece)
- 15:50 In-situ solidification/stabilization of PFAS-contaminated soils
Dr. John MCKernan, United States Environmental Protection Agency (USA)
- 16:10 Fabrication of PVDF membranes for contaminant removal from water
Rachel Kaplan, University of Kentucky (USA)
- 16:30 Poster Session – For list of posters, see end of program**
Light appetizers and drinks provided at the Café
- Adjourn at 18:30
- 19:30 Student and Postdoc Dinner (on your own)**
Location Announced at Conference

THURSDAY – JULY 18, 2024

Main Conference sessions will be held in the Aristotle University Research Dissemination Center (KEDEA) September 3 Campus, Thessaloniki 546 36

- 8:30 Field Trip (Optional – On your own)**
- 13:00 Lunch – at Café**
- 14:00 Session 7: Maternal and Children's Environmental Health – Chairs: Anna Hoover (USA) and Michael Bloom (USA)**
- KEYNOTE* Maternal exposure to polycyclic aromatic hydrocarbons (PAHs) augments neonatal hyperoxic lung injury and causes dysbiosis of gut and lung microbiome: Role of cytochrome P450 (CYP) 1A1, 1A2, and 1B1
Dr. Bhagavatula Moorthy, Baylor College of Medicine (USA)
- 14:30 Longitudinal association of prepubertal and pubertal urinary phthalate metabolite concentrations with pubertal onset, pubertal progression, and semen quality
Dr. Oleg Sergeyev, Moscow State University (Russia)
- 14:50 PFAS exposure is associated with maternal microbiome form and function during pregnancy
Dr. Stephanie Morgan, Wayne State University (USA)
- 15:10 Longitudinal analysis of temporal distribution of melanoma and non-melanoma mortality cases in Hungary
Agnes Stier, Semmelweis University (Hungary)
- 15:30 Coffee Break**



15:50 Session 8: Assessing Ecological and Human Health Implications of Micro and Nanoplastics
- Chairs: Oleg Sergeyev (Russia) and Corina Konstantinou (Cyprus)

KEYNOTE Micro-nano plastics detection, characterization and quantification in urban watersheds
Dr. Souhail Al-Abed, United States Environmental Protection Agency (USA)

16:20 Sampling, pretreatment and identification of microplastics extracted from sand and seawater samples collected from the region of Kavala
Dimitrios Kalaronis, Aristotle University of Thessaloniki (Greece)

16:40 Thermodynamic study on the interplay between radionuclides and microplastics in water, seawater, and wastewater
Dr. Vasiliki Kinigopoulou, Aristotle University of Thessaloniki (Greece)

17:00 Abundance and seasonal variation of microplastics in a wastewater treatment plant: The case of Thessaloniki and Thermaic Gulf
Nina Maria Ainali, Aristotle University of Thessaloniki (Greece)

Adjourn at 17:20

19:30 Gala Dinner
Location to be announced at the conference

FRIDAY – JULY 19, 2024

10:00 Scientific Panel on Understanding Complex Environmental Exposures and Health Effects

Moderator: Dr. Konstantinos Makris, Cyprus University of Technology (Cyprus)

10:55 Scientific Panel on Solutions to Prevent Environmental Exposures and Disease Risks

Moderator: Dr. Kelly G. Pennell, University of Kentucky (USA)

11:50 Coffee Break

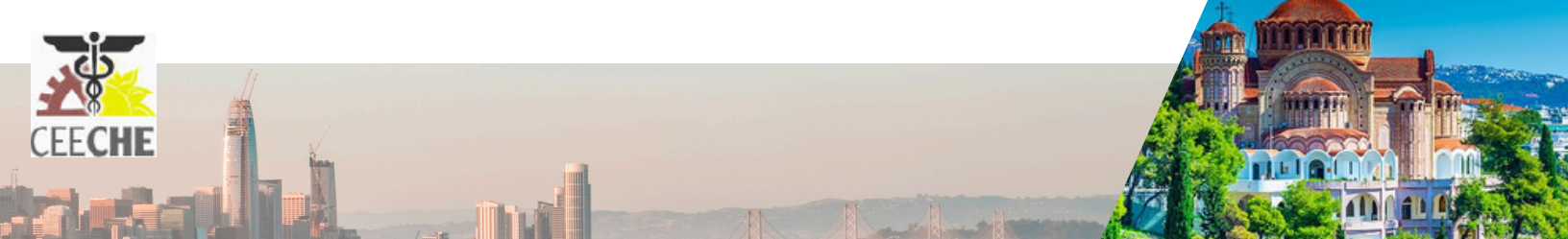
12:10 Conference Awards Announced

12:30 Closing Remarks from Aristotle University of Thessaloniki and University of Kentucky

Dr. Efstathios Oikonomou & Dr. Angela M. Gutiérrez (Scientific Program Chairs)
Dr. Kelly G. Pennell & Dr. Nikiforos Stamatiadis (Conference Board Members)

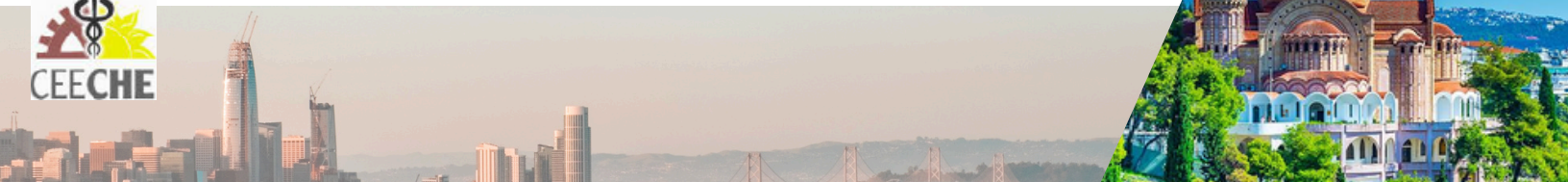
13:00 Lunch – 2 minute walk to Café

Lunch and Conference Adjourns



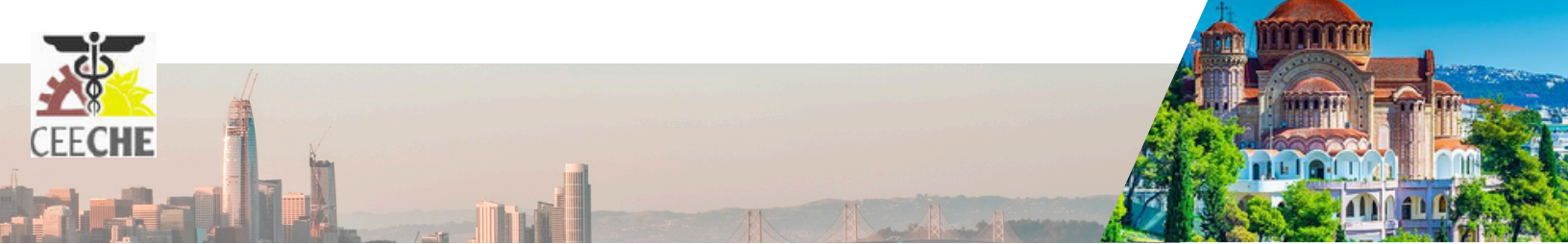
POSTERS

- 1** Intervention program for promoting children's health through beneficial physical activity environments: a Kaunas pilot study
Dr. Sandra Andrusaityte, Kalaronis, Vytautas Magnus University (Lithuania)
- 2** The effect of ethylthiosulfanilate on the antioxidant systems of rats intoxicated with hexavalent Chromium
Dr. Ruslana Iskra, Ivan Franko National University of Lviv (Ukraine)
- 3** Governance as an important element in understanding the need for coherence in water security policies
Dr. Sorin Gurzau, Babes-Bolyai University (Romania)
- 4** Associations between seminal plasma trace elements and semen quality in men
Dr. Michael Bloom, George Mason University (USA)
- 5** Soil pollution with carcinogenic compounds, a risk for the population
Dr. Olha Lytvychenko, Marzieiev Institute for Public Health of the National Academy of Medical Sciences of Ukraine (Ukraine)
- 6** Exploring vapor intrusion as an exposure route for per- and polyfluoroalkyl substances: Assessing physicochemical variability and research needs
Ariel Robinson, University of Kentucky (USA)
- 7** Isolation of two bacteria strains of *Sporolactobacillus* spp. and *Rhodopseudomonas* spp. from compost tea and their potential use for detoxification of olive mill wastewaters
Angeliki Zavra, Aristotle University of Thessaloniki (Greece)
- 8** Investigating the impact of urban infrastructure and physical activity on health: A Kaunas study
Aurimas Rapalavicius, Vytautas Magnus University (Lithuania)
- 9** The effect of relative telomere length on health: Association with air pollution and lifestyle
Dagmar Kramna, University of Ostrava (Czech Republic)
- 10** Circadian rhythm-mediated endothelial dysfunction potentiates the risk of breast cancer brain metastasis following phthalate exposure
Destiny Tiburcio, University of Miami (USA)
- 11** Exposure to toxic metals/metalloids in the environment and in vitro fertilization outcomes in a population group from Romania
Dr. Iulia Neamtii, Environmental Health Center (part of ALS Global) (Romania)
- 12** Remediation approach for reducing exposure risks from the postmilitary sites: case of Kyiv region, Ukraine
Dr. Tatyana Stefanovska, National University of Life and Environmental Sciences of Ukraine (Ukraine)
- 13** Assessing Heavy Metal Risks in Public Springs: Romanian Case Study
Dr. Gabriel Gati, Environmental Health Center (part of ALS Global), Babeş-Bolyai University (Romania)
- 14** Lifetime losses due to cardiovascular and respiratory diseases attributable to air pollution in polluted and unpolluted areas
Tereza Janulková, University of Ostrava (Czech Republic)
- 15** Hydrogels and Hydrogel Composites for PFAS Remediation in Aqueous Systems and the G.I. Tract
Maria Victoria Klaus, University of Kentucky (USA)



POSTERS

- 16** Perfluorooctanesulfonic acid (PFOS) exposure impacts pancreatic islet vascularization during development in zebrafish (*Danio rerio*)
Madeline Tompach, University of Massachusetts Amherst (USA)
- 17** The Rights of Poop: A Scoping Review on the Ethics of Monitoring Wastewater for Covid-19
Krystal Ni, University of Rochester (USA)
- 18** Risk Behavioral Survey in the Sample of Slovak Adolescents from Incomplete Families
Dr. Ľubica Argalášová, Comenius University Faculty of Medicine (Slovakia)
- 19** Current Issues of Hygienic Risk Assessment of 2,4-D Herbicide for Human and Environments Health in Ukraine
Dr. Yuriy Chayka, (Presented by: Iha Lytyuchenko), Bogomolets National Medical University (Ukraine)
- 20** Biomarkers of genotoxicity and their relationship with pesticide use in Chiapas, Mexico
Fernando Uriel González-Domínguez, The School of Public Health of Mexico (Mexico)
- 21** Assessment of children's exposure to heavy metals and toxic elements through playground dust during children's activities
Anastasia Koutelidou, Aristotle University of Thessaloniki (Greece)



The 2024 Central and Eastern European Conference on Health and the Environment

Seeking Solutions for Environmental Exposures and Disease Risks
Thessaloniki, Greece

20 Year Anniversary

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See you at CEECHE 2026!