















SCIENTIFIC PROGRAM Monday, August 23, 2021

 E-Poster Discussions	 Panel Discussions	 Traditional Oral Sessions
 ISEE Society Sessions	 Pecha Kucha	 Replay Sessions of Daily Highlights
 Keynote Sessions	 SNRN & Networking Sessions	 E-Poster Viewing Slots
 Lightning Talks	 Symposia	 Break

07:30 - 09:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 1

Health Effects of Traffic-Related Air Pollution: Assessing the Evidence in an Evolving and Complex World

Chairs: *Barbara Hoffmann, Germany*
Fred Lurmann, United States

Traffic-Related Air Pollution: A Moving Target, *Jeffrey R Brook, Canada*

Systematic Methods to Select and Review Epidemiological Literature on the Health Effects of Long-term Exposure to TRAP, *Allison P Patton, United States*

Results of an HEI Systematic Review on the Health Effects of Long-term Exposure to Traffic-Related Air Pollution, *Hanna Boogaard, United States*

Knowledge on adverse effects of traffic-related air pollution: have we filled the gap? What more do we need to know?, *Francesco Forastiere, Italy*

Key Policy Relevant Questions on Traffic and Health, *Chad Richard Bailey, United States*

Discussants: *Daniel Greenbaum, United States*
Haneen Khreis, United States
Annette Peters, Germany

07:30 - 08:30 / BROOKLYN BRIDGE HALL (HALL 2)

PANEL DISCUSSION 1

Conflict-of-Interest and Disclosure in Epidemiology

Chair: *Colin Soskolne, Canada*

Panelists: *Juan Pablo Ramos-Bonilla, Colombia*
Daniele Mandrioli, Italy
Lisa Bero, United States
Carl Cranor, United States

07:30 - 08:30 / TIMES SQUARE HALL (HALL 3)

E-POSTER DISCUSSION 1

Impacts of Climate-Related Exposures on Human Health

Chairs: *Kate Burrows, United States*
Daniel Carrión, United States

Long-term exposure to specific humidity and cardiovascular disease hospitalizations in the US Medicare population, *Jochem O Klompaker, United States*

Spatio-temporal pattern and climatic determinants of Visceral Leishmaniasis in Italy, *Giovenale Moirano, Italy*

A cold-health watch and warning system, application to the province of Quebec, *Bixun Yan, Canada*

Association between ambient temperature and sex offense: A case-crossover study in seven large US cities, 2007–2017, *Rongbin Xu, Australia*

The Effect of Climate Variables on the Incidence of Cutaneous Leishmaniasis in Isfahan, Central Iran, *Narges Khanjani, Iran*

Differential Risk Factors of Climate Change, Health Vulnerabilities and Outreach Opportunities in the Eastern Caribbean, *Netanya Greene, Saint Kitts and Nevis*

07:30 - 08:30 / EMPIRE STATE BUILDING HALL (HALL 4)

E-POSTER DISCUSSION 2

Environmental Risk Factors for Chronic Kidney Disease

Chairs: *Xu Gao, China*
Emile Whaibeh, Lebanon

Exposure to non-essential metals and albuminuria: exploring causal associations under a Mendelian randomization framework, *Maria Grau Perez, Spain*

Association between blood and urine manganese levels and cardiorenal outcomes in adolescents: NHANES 2013–2018, *Maria D Politis, United States*

Effects of hot weather on kidney disease morbidity and mortality: A systematic review and meta-analysis of epidemiological evidence, *Jingwen Liu, Australia*

Short-term Exposure to Air pollution and the Attributable Risk of Emergency Room Visits for Kidney Diseases, *Whanhee Lee, United States*

The association between Air Pollution and Kidney Function: results from the Korea National Health and Nutrition Examination Survey, *Eunhee Ha, South Korea*



SCIENTIFIC PROGRAM Monday, August 23, 2021

07:30 - 08:30 / GRAND CENTRAL HALL (HALL 5)

MEET THE ISEE PRESIDENT 1

Led by *ISEE President, Mark Nieuwenhuijsen, Spain*
ISEE President-Elect, Andrea Baccarelli, United States

08:30 - 09:30 / E-POSTER GALLERY & NETWORKING LOUNGE

MORNING NETWORK & E-POSTER VIEWING

08:30 - 09:00 *Display of posters at the E-poster gallery, Questions & answers over the posters*
09:00 - 09:30 *Poster Viewing Group discussions in the public chat channels in Networking Lounge*

Poster Viewing Groups (PVG): *PVG 1 / PVG 2 / PVG 3 / PVG 4 / PVG 5*

09:30 - 11:00 / STATUE OF LIBERTY HALL (HALL 1)

KEYNOTE SESSION 1

Chairs: *Joan Casey, United States*
Marianthi-Anna Kioumourtzoglou, United States













When epidemiology meets climate science: new paths to address current and future challenges in climate change research

Ana Maria Vicedo-Cabrera, Switzerland

Advancing Environmental Epidemiology through Data Science Innovations: Current State and Future Challenges

Kiros Berhane, United States

11:00 - 11:30 / BREAK

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11:30 - 13:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 2

Environmental Health Inequalities in Indigenous Communities: Lessons and Opportunities

Chairs: *Joseph Siraata Yracheta, United States*
Jada L. Brooks, United States

Gene-environmental research in Indigenous communities: sovereignty, data sharing, and community-relevant research, *Joseph Siraata Yracheta, United States*

Geographic and dietary differences of urinary uranium levels in the Strong Heart Family Study, *Kevin Patrick Patterson, United States*

Air pollution in American Indian vs. Non-American Indian communities, *Maggie Li, United States*

Regional and temporal trends in exposure to ambient air pollution: Findings from the Strong Heart Study, *Jada L. Brooks, United States*

Metals and cardiometabolic disease in American Indian communities: from observations to interventions, *Ana Navas-Acien, United States*

11:30 - 13:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 3

Maximizing the Contributions of Epidemiologic Research to Policy: Selecting, Designing, and Analyzing Influential Studies

Chairs: *Kurt Straif, Spain*
David A Savitz, United States

Planning Epidemiologic Research in Anticipation of Future Evaluations, *Kurt Straif, Spain*













Design Strategies for Generating Highly Influential Studies, *David A Savitz, United States*

What Characteristics of Epidemiologic Evidence Correlate with Study Usefulness or Influence? Experiences in Three Settings, *Irva Hertz Picciotto, United States*

Characteristics of Studies that have influence in policy – examples from PFAS epidemiology, *Tony Fletcher, United Kingdom*



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11:30 - 13:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 4

Hallmarks of Environmental Insults

Chairs: *Annette Peters, Germany*

Andrea A Baccarelli, United States

Hallmarks of Environmental Insults, *Annette Peters, Germany*

The Hallmarks of Aging and Environmental Insults: Molecular Mechanisms, *Andrea A Baccarelli, United States*

The Hallmarks of Environmental Insults and early childhood development, *Tim Nawrot, Belgium*

The hallmarks of environmental issues and the brain, *Jordi Sunyer, Spain*

Discussant: *Philippe Grandjean, Denmark*

11:30 - 13:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 1

Air Pollution and Cardiometabolic Health

Chairs: *Barbara Hoffman, Germany*

Laura Corlin, United States

Long-term air pollution exposure and sex-specific cardiometabolic health trajectories: the Framingham Offspring Study, *Laura Corlin, United States*

Association Between Long-Term Exposure to Ambient Air Pollution and Lesion Ischemia in Atherosclerotic Patients, *Meng Wang, United States*

Habitual Physical Activity Is Associated with Reduced Risk of Cardiovascular Mortality Regardless of Ambient PM2.5 Exposure, *Xiang Qian Lao, China*

Long-term exposure to ambient PM2.5 leads to increased risk of Type 2 diabetes in urban Delhi and Chennai, India, *Siddhartha Mandal, India*

Short-term joint effects of multiple air pollutants on cardio-respiratory disease hospital admissions in Cape Town, 2011 – 2016, *Temitope Christina Adebayo Ojo, Switzerland*

Associations between air pollution and temperature on glycated hemoglobin levels in women of child bearing age, *Mike Z. He, United States*

11:30 - 13:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 2

Climate and Health: Co-benefits

Chairs: *Kristie Ebi, United States*

Lara Cushing, United States

Heat alerts associated with higher rates of cause-specific hospital admissions but not lower mortality among older adults in the US, *Kate R. Weinberger, Canada*

Impacts of climate change mitigation and clean cooking access on future childhood stunting in India, *Asya Dimitrova, Spain*

Climate action for health and wellbeing in cities: systematic development of a database of peer-reviewed studies using machine learning methods, *Kristine Belesova, United Kingdom*

Air quality-related health co-benefits from Pennsylvania's entry into the Regional Greenhouse Gas Initiative (RGGI), *Hui Yang, United States*

Urban resilience: assessing climate vulnerabilities and risk perceptions in the city of Haifa, Israel, *Maya Negev, Israel*

Policy implications of research on "Climate and health: Co-benefits". Discussion by *Audrey J de Nazelle, UK & Gudrun Weinmayr, Germany*

13:00 - 14:00 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT













13:00 – 13:30 Display of posters **at the E-poster gallery**, Questions & answers over the posters

13:30 – 14:00 Poster Viewing Group discussions **in the public chat channels in Networking Lounge**

Poster Viewing Groups (PVG): **PVG 6 / PVG 7 / PVG 8 / PVG 9 / PVG 10**



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14:00 - 15:00 / STATUE OF LIBERTY HALL (HALL 1)

LIGHTNING TALKS 1

Air Pollution and Adverse Health Outcomes

*Chairs: Adetoun Mustapha, Nigeria
Imane Sekmoudi, Morocco*

Ambient air pollution and academic achievements among US children: a panel study, **Wenxin Lu, United States**

Associations between chronic air pollution and COVID-19 mortality: A patient-level analysis from New York City, **Darby Jack, United States**

Long-term air pollution exposure and diabetes incidence in two prospective cohorts of U.S. women, **Melissa R Fiffer, United States**

Long-term exposure to low concentrations of air pollution and cause-specific mortality beyond cardiorespiratory disease: A Danish nationwide cohort study, **Rina So, Denmark**

Long-term exposure to ambient air pollution and bladder cancer incidence in a pooled European cohort: the ELAPSE project, **Jie Chen, Netherlands**

Long-term air pollution exposure and mortality due to dementia, Parkinson's Disease and psychiatric disorders: the ELAPSE project, **Zorana Jovanovic Andersen, Denmark**

Positive attitude, low level of knowledge and inappropriate practices towards air pollution: CAP study in Colombian children and adolescents, **Nicolás Calle, Colombia**

Using Satellite Data for Environmental Justice Efforts in California, **Laura Gladson, United States**

Developing an air pollution exposure surveillance system in England; a new national vulnerability indicator, **Helen Crabbe, United Kingdom**

14:00 - 15:00 / BROOKLYN BRIDGE HALL (HALL 2)

LIGHTNING TALKS 2

Air Pollution and Cardiovascular Outcomes

*Chairs: Annette Peters, Germany
Leonard Stockfelt, Sweden*

Long-term air pollution exposure and incident stroke in American elderly population: a national cohort study, **Tszshan Ma, United States**

Quantile regression to examine the association of air pollution with subclinical atherosclerosis in an adolescent population, **Adjani Antonela Peralta, United States**

Associations between long-term fine particulate matter exposure and hospital procedures in heart failure patients, **Cavin Ward-Caviness, United States**

The Effects of Short- and Long-term Exposures to Air Pollution on microRNA in Participants of the Normative Aging Study (NAS), **Mahdieh Danesh Yazdi, United States**

The Association Between PM2.5 and Blood Pressure in Indonesia, **Jaime Madrigano, United States**

Associations between Long-term UFP Exposure and Certain Inflammatory Biomarkers and Blood Lipid Indicators: An Analysis Featuring Peak Exposure Metrics, **Cheng Lin, United States**

Associations between Air Pollution and County Level Cardiovascular Mortality in the United States by Ecoregions, **Daniel W Riggs, United States**

Methylation markers associated with air pollution exposure and cardiometabolic health in the Framingham Offspring Study, **Laura Corlin, United States**

Critical windows of perinatal particulate matter (PM2.5) exposure and preadolescent kidney function, **Maria José Rosa, United States**

14:00 - 15:00 / TIMES SQUARE HALL (HALL 3)

PANEL DISCUSSION 2

Reflections on Academic Freedom, Scientific Controversy and Consensus Building in Environmental Health

*Chairs: Tony Fletcher, United Kingdom
Mildred Maisonet Nogueras, United States*

Panelists: Agnes Soares da Silva, USA













Barbara Hoffmann, Germany

David Michaels, USA

Maya Negev, Israel



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14:00 - 15:00 / EMPIRE STATE BUILDING HALL (HALL 4)

LIGHTNING TALKS 3

Climate-Related Exposures and Adverse Health Outcomes

Chairs: *Tarik Benmarhnia, United States*
Kate Burrows, United States

The association between postnatal exposure to ambient temperature and rapid infant weight gain, *Raanan Raz, Israel*

Effect modification of omega-3 fatty acids on short-term associations between ambient air temperature and heart rate variability, *Alexandra Schneider, Germany*

Environmental quality characterization of public schools transformed into climate shelters in Barcelona: A pilot innovative study, *Mònica Ubalde López, Spain*

Local mortality impacts due to future air pollution under climate change scenarios in Mozambique, India, and Spain, *Vijendra Ingole, Spain*

The missing exposure-outcome link: "equivalent" outdoor ambient temperatures for assigning heat-health effects to individual-level temperature exposures in three U.S. cities, *Carina J. Gronlund, United States*

Evaluation of heat mitigation and adaptation behaviors in NYC during COVID-19, *Lauren Smalls Mantey, United States*

Wildfire smoke as a driver of covid-19 fatality rates? A synthetic control analysis of San Francisco Bay Area Counties, *Lara Schwarz, United States*

Associations Between Drought and Childhood Diarrhea in Low- and Middle-Income Countries, *Pin Wang, United States*

Differential Susceptibility to Aridity for Mortality Outcomes in South Africa: Application of Mixed-Effect Regression Tree Analysis to a Case-Only Design, *Matthew O. Gribble, United States*

14:00 - 15:00 / GRAND CENTRAL HALL (HALL 5)

PANEL DISCUSSION 3

The Critical Role Science-based, Validated Systematic Review Methods Lay to Inform Policy and Decision-Making to Protect Communities Disproportionately Impacted by Harmful Environmental Exposures

Chair: *Nicholas Chartres, United States*

Panelists: *Juleen Lam, United States*

Lisa Bero, United States

Tracey Woodruff, United States

Susan L Norris, United States

15:00 - 15:30 / BREAK

15:30 - 17:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 5

Climate Change, Pollen Exposure Dynamics and Burden of Allergic Disease in North America

Chairs: *Lew H Ziska, United States*
Amir Sapkota, United States

Evidence for recent climate change and carbon dioxide influence on plant based aero-allergens in the Northern Hemisphere, *Lew H Ziska, United States*

Recent advancements in the use of remote sensing observations to inform ground level pollen dynamics, *Yuyu Zhou, United States*

Changes in Timing of Spring Onset, Pollen Exposure, and Burden of Allergic Disease in the Northeastern United States, *Amir Sapkota, United States*

A machine-learning Strategy for Generating Pollen Estimates and Forecasts in North America, *Fiona Lo, United States*

15:30 - 17:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 6

How will the Covid-19 Pandemic Change Environmental Epidemiology Research?

Chairs: *David A Savitz, United States*
Manolis Kogevinas, Spain

Changes in the research scope of environmental epidemiology, *David A Savitz, United States*

Changes in environmental epidemiology research methods due to COVID-19, *Cathryn Tonne, Spain*

New directions in global environmental health, *Manolis Kogevinas, Spain*

Discussants: *Brooke Anderson, United States*

Andrea Baccarelli, United States

Mauricio Barreto, Brazil













Thomas Clasen, United States

Maureen Lichtveld, United States

Gregory Wellenius, United States



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15:30 - 17:00 / TIMES SQUARE HALL (HALL 3)

TRADITIONAL ORAL SESSION 3

Air Pollution and Neurodegeneration

Chairs: *Sara Adar, United States*

Aisha Dickerson, United States

Multi-air pollutant exposure and amyotrophic lateral sclerosis (ALS) diagnosis in Denmark, *Robbie M Parks, United States*

Long-term exposure to ambient air pollution is associated with neuropathologic change of Alzheimer's Disease at Autopsy, *Zhenjiang Li, United States*

Air pollution and plasma amyloid beta: Evidence from the Ginkgo Evaluation of Memory Study, *Anjum Hajat, United States*

The Effect of Ultrafine Particles (PM0.1) on Neurological Disorders in New York State, *Ian Ryan, United States*

Associations of Long-Term Air Pollution Exposure with Incident Dementia among Older U.S. Adults: The Health and Retirement Study, *Boya Zhang, United States*

Annual dementia incidence and socioeconomic costs attributable to fine particulate matter (PM2.5) exposure in Sweden, *Hedi Kriit, Sweden*

15:30 - 17:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 4

Causal Inference, Novel Analysis Approaches, and Their Potential Role in Evidence Syntheses in Environmental Epidemiology

Chairs: *Andreas Neophytou, United States*

Mary Willis, United States

Maternal exposure to traffic-related pollutants during pregnancy and birth weight: using machine-learning methods to achieve balance in inverse-probability weights, *Shuxin Dong, United States*

Long-term Exposure to Fine Particulate Matter is Causally Linked to Mortality Among the Elderly, *Francesca Dominici, United States*

Perinatal health impacts of air pollution mitigation policies: applying g formula to preterm birth in Temuco/ Padre Las Casas, Chile, *Estela Blanco, Chile*

Risk of bias assessments and evidence syntheses for observational epidemiologic studies of environmental and occupational exposures: strengths and limitations, *Kyle Steenland, United States*

Policy implications of research on "Causal inference, novel analysis approaches, and their potential role in evidence syntheses in environmental epidemiology". Discussion by Hanna Boogaard, United States

15:30 - 17:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 5

Climate and Health: Planetary Health

Chairs: *Joan A Casey, United States*

Amruta Nori-Sarma, United States

Long-term impacts of Atlantic hurricanes on asthma exacerbations among children with asthma in the eastern United States, *Kate R. Weinberger, Canada*

Strategies for reducing the burden of climate-sensitive diarrheal infections on young children, *Anna Dimitova, United States*

The association of childhood exposure to crop yield variation and survival in a subsistence farming population in Burkina Faso, *Kristine Belesova, United Kingdom*

Extreme Precipitation and Legionnaires Disease Hospitalizations in Boston, Massachusetts from 2002-2012, *Timothy J Wade, United States*













Tropical cyclones and mortality in the United States, *Robbie M Parks, United States*

Ethical implications of research on "Climate and health: Planetary health". Discussion by Tim Takaro, Canada & Laura Geer, United States

17:00 - 17:30 / BREAK



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17:30 - 18:30 / STATUE OF LIBERTY HALL (HALL 1)

LIGHTNING TALKS 4

The Role of Built Environment on Health

*Chairs: Audrey de Nazelle, United Kingdom
Rena Jones, United States*

Associations of urban environment features with hypertension and blood pressure across 230 Latin American cities, *Ione Avila-Palencia, United States*

Socioeconomic disadvantage is associated with increased risk of mortality from COVID-19, *Timothy J Wade, United States*

Associations between minute-level smartphone GPS-derived exposure to greenness and consumer wearable-derived physical activity in the Nurses' Health Study 3, *Grete E Wilt, United States*

Impacts of green space on mental health during the COVID-19 pandemic in Denver, *Colleen E Reid, United States*

Time for 'Green' during COVID-19? A nationally-representative study of nature, connectedness and coping in Australia during the COVID-19 pandemic, *Xiaoqi Feng, Australia*

A systematic review of studies on the role of age and gender in associations between greenspace and mental health, *Tafzila Akter Mouly, Australia*

Green walkability and physical activity in UK Biobank, *Charlotte J Roscoe, United States*

The impact of greenspace and air pollution exposure on incident dementia in the Ginkgo Evaluation of Memory Study, *Cindy S. Leary, United States*

Outdoor artificial light at night, air pollution, and childhood acute lymphoblastic leukemia, *Charlie Zhong, United States*

Social Determinants of Housing Quality for U.S. Immigrants: Intersections of Nativity, Race, and Socioeconomic Status, *MyDzung T Chu, United States*

17:30 - 18:30 / BROOKLYN BRIDGE HALL (HALL 2)

E-POSTER DISCUSSION 3

Climate and Disparities

*Chairs: Brama Koné, Ivory Coast
Jenni Shearston, United States*

Are Cooling Centers Optimally Placed to Serve Vulnerable Populations? An analysis of 77 US Cities, *Quinn Adams, United States*

Social and spatial variation in heatwave-related emergency department visits in Australia, *Robert Matthew Beaty, Australia*

Exposure to heat during pregnancy and preterm birth in North Carolina: disparities by residential greenness, urbanicity, and socioeconomic status, *Ji-Young Son, United States*

Socioeconomic level and associations between heat exposure and all-cause and cause-specific hospitalization in 1,814 Brazilian cities: A nationwide case-crossover study, *Rongbin Xu, Australia*

Extreme temperature, health, and disability: A comparison of health effects between people with and without disabilities, *Sera Kim, South Korea*

Health Disparities Among Older Adults Following Tropical Cyclone Exposure in Florida, USA, 1999-2016, *Kate Burrows, United States*

17:30 - 18:30 / TIMES SQUARE HALL (HALL 3)

E-POSTER DISCUSSION 4

Environmental Justice - Disparities

*Chairs: Miranda Jones, United States
Estela Blanco, Chile*

Environmental health, racial/ethnic health-disparity, and climate impacts of freight transport in the United States, *Maninder P.S. Thind, United States*

Racial-ethnic Disparities in PM2.5 Exposure in California: Differences by Season and Daily Pollution Level, *Tianjun Lu, United States*

Health and equity opportunities of commercial corridors revitalization in Colorado, *David Rojas, United States*













Assessing how students' respiratory health mediate socioeconomic status and school building conditions' effects on students' performance, *Yi Lu, United States*

Racial-ethnic disparities in exposure to NO2 and PM2.5 in the United States: Insights from spatial decomposition of ambient concentrations, *Jiawen Liu, United States*

Forty years of road transport NOX emissions reductions in the contiguous United States: an environmental justice analysis, *Jaime Benavides, United States*



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E-POSTER DISCUSSION 5

The Role of Diet in Ameliorating/Exacerbating Environmental Exposure Adverse Health Impacts

Chairs: Chris Lim, United States

Eleni Papadopoulou, Norway

Vitamin D intake modifies the association of household air pollution exposure with maternal disorders of pregnancy, *A Kofi Amegah, Ghana*

Dietary predictors of prenatal per- and poly-fluoroalkyl substances (PFAS) exposure, *Stephanie Eick, United States*

Nutritional modulation of fetal susceptibility to iAs-associated gene expression underlying oxidative stress and inflammation in cord blood, *Jelijah Clark, United States*

Dietary intake and blood concentrations of folate and folic acid in relation to serum per- and polyfluoroalkyl substances (PFAS) concentrations, *Yu Zhang, United States*

Hair mercury levels, dietary intake of omega-3 fatty acids and ovarian reserve among women attending a fertility center, *Lidia Minguez Alarcon, United States*

HBM4EU-MOM: intervene to raise awareness to specific dietary recommendations and reduce prenatal exposure to mercury, *Sónia Namorado, Portugal*

17:30 - 18:30 / GRAND CENTRAL HALL (HALL 5)

MEET THE ISEE PRESIDENT 2

Led by ISEE President, Mark Nieuwenhuijsen, Spain

ISEE President-Elect, Andrea Baccarelli, United States

18:30 - 19:00 / BREAK

19:00 - 20:30 / STATUE OF LIBERTY HALL (HALL 1)

TRADITIONAL ORAL SESSION 6

Bringing It All Back Home: Cancer and the Residential Environment

Chairs: Julia Heck, United States

Mary Ward, United States

Neighborhood socioeconomic status and biomarkers among participants in the US-based Health Professionals' Follow-Up Study and Nurses' Health Study, *Hari S Iyer, United States*

Screening-level assessment of cancer risk associated with ambient air exposure in Aamjiwnaang First Nation, *Kristian Larsen, Canada*

Ethylene oxide emissions and risk of breast cancer and Non-Hodgkin lymphoma in a large U.S. cohort, *Rena R. Jones, United States*

Air pollution and breast cancer: an examination of modification by familial breast cancer risk, *Nicole M Niehoff, United States*

Environmental and social risk factors in association with spatial clustering of childhood cancer incidence, *Anke Huels, United States*

Residential proximity to animal feeding operations and risk of lymphohematopoietic cancers in the Iowa Women's Health Study, *Jared A Fisher, United States*

19:00 - 20:30 / BROOKLYN BRIDGE HALL (HALL 2)

TRADITIONAL ORAL SESSION 7

Built Environment and Health

Chairs: Keren Agayshay, Israel

Richard Remigio, United States

Urban Environment and Growth and Obesity in Preschool Children from Six European Birth Cohorts, *Serena Fossati, Spain*

A Cross-sectional Study of Brownfields and Birth Defects, *Kristen M Rappazzo, United States*

Associations of greenspace and cardiorespiratory mortality are driven by private residential gardens: observational evidence from UK Biobank, *Charlotte J Roscoe, United States*













Assessing the Effect of Ultraviolet Radiation, Residential Greenness and Air Pollution on Vitamin D Levels: A Cohort Study in China, *Haofan Zhang, China*

More green, less lonely? A longitudinal cohort study, *Thomas Astell Burt, Australia*

Ethical implications of research on "Built environment and health". Discussion by Carl Grimes, United States & Miguel Ángel Karam, Mexico



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TRADITIONAL ORAL SESSION 8

Exposure Assessment: Air Pollution

Chairs: *Yuming Guo, Australia*
Rachel Tham, Australia

New monitoring paradigms and designs for air pollution assessment in epidemiologic cohorts, *Sun Young Kim, South Korea*

A Random Forest Model for PM_{2.5} Personal Exposure Assessment for a Chinese Cohort, *Yanwen Wang, China*
Personal exposure to particulate matter in various modes of transport in Kathmandu, Nepal, *Binaya Kc, Nepal*
Predictors of indoor PM_{2.5} and CO in an urban slum settlement in Fort Portal city, Uganda, *Winnifred K Kansime, Uganda*

A Deep Learning Approach for Meter-Scale Air Quality Estimation in Urban Environments Using Very High-Resolution Satellite Imagery, *Ata Akbari Asanjan, United States*

19:00 - 20:30 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 9

Phthalate Exposures and Health

Chairs: *Nan Li, United States*
Nikolas Stratakis, United States

Association between urinary concentration of phthalate metabolites and allergic disorders in Korean children: Korean National Environmental Health Survey (KoNEHS) 2015-2017, *Ju Yeon Lee, South Korea*

Prenatal Maternal Phthalate Exposures and Trajectories of Childhood Adiposity from Four to Twelve Years, *Allison Kupsco, United States*

Association of phthalate replacement DINCH metabolite concentrations with adiposity in a multi-site, multi-racial cohort of children, *Pamela L Ferguson, United States*

The association of gestational and childhood phthalate exposure with adolescent hair cortisol: The HOME Study, *Joseph M Braun, United States*

Assessment of metabolic perturbations associated with prenatal phthalate exposure among pregnant African American women, *Donghai Liang, United States*

Pregnancy exposure to phthalates and placental DNA methylation in the French EDEN cohort, *Paulina Jedynak, France*

19:00 - 20:30 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 10

Women's Environmental Health

Chairs: *Lauren Wise, United States*
Traci Bethea, United States

Multiple exposures to persistent organic pollutants and diminished ovarian reserve: findings from a French case-control study, *Maximilien Génard Walton, France*

Associations of pregnancy per- and polyfluoroalkyl substance concentrations and fibroid changes across pregnancy: NICHD Fetal Growth Studies - Singletons cohort, *Susanna D Mitro, United States*

Associations of Phthalates and Phenols, Telomere Length, and Breast Cancer in the Long Island Breast Cancer Study Project, *Xueying Zhang, United States*

Exposure to particle radioactivity and breast cancer risk in a US-wide prospective cohort, *Alexandra J White, United States*

Urinary Metals and Metal Mixtures and Incident Natural Menopause in Midlife Women: the Study of Women's Health Across the Nation, *Xin Wang, United States*

Long-term particulate matter exposure and bone mineral density in the Women's Health Initiative, *Diddier Prada, United States*

20:30 - 21:30 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT













20:30 - 21:00 Display of posters at the E-poster gallery, Questions & answers over the posters

21:00 - 21:30 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 11 / PVG 12 / PVG 13 / PVG 14 / PVG 15*



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 Lightning Talks	 Symposia	 Break

07:30 - 08:30 / STATUE OF LIBERTY HALL (HALL 1)

LIGHTNING TALKS 5

Epidemiology of PFAS or Heavy Metals

Chairs: *Tony Fletcher, United Kingdom*

Temitope Ayodeji Laniyan, Nigeria

Cadmium exposure and coronary artery atherosclerosis, *Lars Barregard, Sweden*

Association between cadmium and genotoxicity and oxidative stress risk biomarkers in a population of Northern Italy, *Teresa Urbano, Italy*

Arsenic Methylation and Body Composition among Pregnant Women in Rural Northern Bangladesh: The

Pregnancy, Arsenic, and Immune Response (PAIR) Study, *Tyler J S Smith, United States*

Association between heavy metal exposure and liver function markers among Korean adults: Korean National

Environmental Health Survey 2015 - 2017, *Kim Do Won, South Korea*

Association of childhood and perinatal blood metals with children gut microbiome in a Canadian gestation

cohort, *Yike Shen, United States*

Poly- and perfluoroalkyl substances (PFASs) and lipidomics and inflammatory proteomics in the human

EuroMix study, *Eleni Papadopoulou, Norway*

Physical activity modifies the association between prenatal perfluorooctanoic acid exposure and adolescent

cardiometabolic risk, *Joseph M Braun, United States*

COVID-19 and perfluoroalkyl substances (PFAS) from contaminated drinking water in the Veneto Region

(Italy): a spatial ecological analysis, *Tony Fletcher, United Kingdom*

Maternal levels of perfluoroalkyl substances (PFAS) during early pregnancy in relation to preeclampsia

subtypes, *Paige Bommarito, United States*

Identifying periods of susceptibility to perfluoroalkyl substances and bone mineral density in early adolescence:

the HOME Study, *Jessie P. Buckley, United States*

07:30 - 08:30 / BROOKLYN BRIDGE HALL (HALL 2)

LIGHTNING TALKS 6

Exposure to Fine Particles and Adverse Health Outcomes

Chairs: *Haidong Kan, China*

Sara Kress, Germany

Associations between Reduced PM_{2.5} and Improved Health during China's Clean Air Actions since 2013, *Tao Xue, China*

Long-term exposure to ambient particulate matter components and mortality: results from six European administrative cohorts within the ELAPSE project, *Sophia Rodopoulou, Greece*

Long-term air pollution exposure and incident dementia in American elderly population: a national cohort study, *Liuhua Shi, United States*

Exposure to particulate matter air pollution and age of menarche in a nationwide cohort of US girls, *Robert B Hood, United States*

Prenatal exposure to PM_{2.5} constituents and children's growth trajectory in the first two years: a birth cohort

study, *Shuang Zhou, China*

Short-Term PM_{2.5} Exposure Impacts Cognitive Performance: A Longitudinal Repeated Measures Study of the

Western US 2017-2018, *Stephanie E Cleland, United States*

Prenatal Air Pollution, Maternal Immune Activation, and Autism Spectrum Disorders, *Xin Yu, United States*

Long-term ambient PM_{2.5} and O₃ reduced cognitive function in young adults as measured through the

Lumosity brain training platform, *Lauren H Wyatt, United States*

Ambient air pollution and risk of daily hospital admission for anxiety in 56 Chinese cities, *Shaowei Wu, China*

Association between air pollution exposure and handgrip strength as a marker of frailty: findings from the

French CONSTANCES cohort, *Bénédicte Jacquemin, France*

07:30 - 08:30 / TIMES SQUARE HALL (HALL 3)

PANEL DISCUSSION 4

Advancing Environmental Health Equity through Implementation Science

Chair: *Gwen Collman, United States*

Panelists: *Lindsey Ann Martin, United States*

Gila Neta, United States













Aruni Bhatnagar, United States

Tamarra James-Todd, United States

Lisa M. Thompson, United States



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07:30 - 09:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 11

Source-specific Air Pollution and Health

Chairs: *George Thurston, United States*
Xueying Zhang, United States

Cardio-respiratory disease with contrasted air pollution levels in three municipalities of Abidjan district hospitals, Cote d'Ivoire, *Kouame Kouadio, Cote d'Ivoire*
Replacing wood with charcoal fuel prevents 1.7 million acute respiratory infections worldwide; evidence from 360,000 children in 30 low-and-middle-income countries, *Katherine E Woolley, United Kingdom*
Health Impact Assessment of PM2.5 control legislation in Korea, *Eunjin Oh, South Korea*
Global health burden of PM2.5, black and organic carbon aerosols, *Sourangsu Chowdhury, Germany*
Source-specific fine particulate matter and hospitalization due to myocardial infarction, *Rachel H. Tao, United States*

07:30 - 08:30 / GRAND CENTRAL HALL (HALL 5)

E-POSTER DISCUSSION 6

Household Air Pollution

Chairs: *Pallavi Pant, United States*
Ya-Yun Cheng, United States

Constructing clean cookstove stack in Ghana, *Theresa Afia Serwaa Tawiah, Ghana*
Estimation of long-term exposure to PM2.5 based on short-term personal measurements in mother-child pairs in rural Ghana, *Misbath Daouda, United States*
Maternal exposure to biomass fuel and birthweight in Kaduna, Northwestern Nigeria: Results from the Child Electronic Growth Monitoring System (CEGROMS), *Musa Abubakar Kana, United States*
Effects of an LPG stove intervention on gestational blood pressure: findings from Household Air Pollution Intervention Network randomized controlled trial, *Wenlu Ye, United States*
High Fidelity: Delivery and use of an LPG stove intervention during pregnancy in the HAPIN trial, *Ashlinn K Quinn, United States*
Household air pollution and personal CO:PM2.5 relationships during cooking in the GRAPHIS cohort: important covariates include wearing compliance, *Mohammed Mujtaba, Ghana*

08:30 - 09:30 / E-POSTER GALLERY & NETWORKING LOUNGE

MORNING NETWORK & E-POSTER VIEWING

08:30 - 09:00 Display of posters **at the E-poster gallery**, Questions & answers over the posters
09:00 - 09:30 Poster Viewing Group discussions **in the public chat channels in Networking Lounge**

Poster Viewing Groups (PVG): *PVG 16 / PVG 17 / PVG 18 / PVG 19 / PVG 20*

09:30 - 11:00 / STATUE OF LIBERTY HALL (HALL 1)

KEYNOTE SESSION 2

Chairs: *Chang-Chuan Chan, Taiwan*
Andrea Baccarelli, United States













COVID-19 Containment and Reform for Health and Development Resilience: Taiwan Experiences
Chein-Jen Chen, Taiwan

Omics in Environmental Epidemiology
Cavin Ward-Caviness, United States

11:00 - 11:30 / BREAK



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11:30 - 13:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 7

Presentation and Discussion of ISEE Principles for Evidence Synthesis and Evaluation in Environmental Health with Invited Feedback from Speakers of Major National and International Agencies Relying on Evidence Synthesis in Environmental Health - an ISEE Policy Committee Symposium

Chairs: Jonathan M Samet, United States

Kurt Straif, Spain

ISEE principles for evidence synthesis and evaluation in environmental health, *Kurt Straif, Spain*

Comments from the perspective of pertinent committees of the US National Academies of Sciences, *Jonathan M Samet, United States*

Evidence Synthesis and Integration Methods used in the US Environmental Protection Agency's (EPA)

Integrated Risk Information System (IRIS) Program, *Kristina Thayer, United States*

Approach to assessing the certainty of evidence in environment and health - the case of WHO global air quality guidelines, *Dorota Jarosinska, Germany*

ISEE principles for evidence synthesis and evaluation in environmental health - Perspectives from HEI, *Daniel Greenbaum, United States*

ISEE principles for evidence synthesis and evaluation in environmental health: comments from experience on advisory and regulatory committees, *Neil Pearce, United Kingdom*

ISEE principles for evidence synthesis and evaluation in environmental health: comments from the perspective of the Cochrane Collaboration, *Lisa Bero, United States*

Fifty years of comprehensive cancer hazard identification: the IARC {Monographs} Programme's systematic review and synthesis across multiple evidence streams, *Mary K Schubauer Berigan, France*

11:30 - 13:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 8

Air pollution and Climate impacts in the Eastern Mediterranean Region

Chairs: Narges Khanjani, Iran

Wael Al-delaimy, United States

Concurrent heatwaves and extreme Ozone (O₃) episodes: combined atmospheric patterns and impact on human health, *Kenza Khomsi, Morocco*

Machine-learning regression for forecasting air pollution, *Oumaima Bouakline, Morocco*

Multiple Air pollutant exposure and lung cancer in Tehran, Iran, *Narges Khanjani, Iran*

Potential health and economic benefits of air quality improvements in Morocco: A simulation based on particles during the COVID19 lockdown, *Imane Sekmoudi, Morocco*

Environmental Exposure in Lebanese Infants (EELI): A Longitudinal Birth Cohort- Pilot Study, *Myriam Mrad Nakhle, Lebanon*

Health Hazards of occupational exposure to airborne biological pollutants on workers in Wastewater treatment plant, *Amal Saad Hussein, Egypt*

11:30 - 13:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 9

Air Pollution Assessment in a Resource Constrained World

Chairs: Adetoun Mustapha, Nigeria

Eric Coker, United States

Leveraging low-cost air quality sensors and machine learning techniques for air pollution assessment and prediction in urban Ghana, *A Kofi Amegah, Ghana*

Application of an ultra-low-cost passive sampler for light-absorbing carbon in India and Mongolia, *Bujin Bekbulat, United States*

Particulate matter measurement in South Africa: are the right questions being asked?, *Oyewale Mayowa Morakinyo, Nigeria*

Lessons learnt on air pollution assessment around schools in Warri, Nigeria and the policy implications, *Adetoun Mustapha, Nigeria*

Local design and development of low-cost air sensing and data science methods in sub-Saharan Africa – lessons learnt from Uganda, *Engineer Bainomugisha, Uganda*

Satellites, mobile-monitoring, and fixed-site measurements to understand local variations in air pollution, globally: the view from Google, *Karin Tuxen Bettman, United States*



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11:30 - 13:00 / EMPIRE STATE BUILDING HALL (HALL 4)

SYMPOSIUM 10

Climate and Health: From Research to Policy in the Context of EU and Belmont Forum Funded Projects

Chairs: *Matthew Chersich, South Africa*

Vlatka Matkovic, Belgium

A decade of EU funded Research in Climate, Environment and Health: a review and future perspectives under Horizon Europe, *Richard Tavares, Belgium*

Belmont Forum Climate, Environment and Health Collaborative Research Action: current projects and future perspectives, *Caroline Culshaw, United Kingdom*

The ENBEL project: From research findings to policy, *Kristin Aunan, Norway*

The CHAMNHA project: defining heat impacts on maternal and neonatal health and testing adaptive interventions in Burkina Faso and Kenya, *Adelaide M Lusambili, Kenya*

{Protection, Resilience, Efficiency and Prevention} (PREP), preparing workers and employers for a changing climate, *Jason Glaser, United States*

The role of adaptation measures in contrasting heat-related health effects among vulnerable groups: a review from the EXHAUSTION European project, *Francesca de Donato, Italy*

11:30 - 13:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 12

Environmental Exposures and Neurodevelopment

Chairs: *Youssef Oulhote, United States*

Raanan Raz, Israel

Prenatal Triclosan Exposure and Neurodevelopment of 2-Year-Old Children in Shangdong, China, *Yunjie Ren, China*













Systematic Review and Meta-analysis on Association Between Air Pollutants and Hippocampal Volume from Magnetic Resonance Imaging in Adults, *Erica Balboni, Italy*

Sex-specific associations of prenatal metal exposures with longitudinal child behavior in the New Hampshire Birth Cohort Study, *Julia Anglen Bauer, United States*

Neurodevelopmental effects of prenatal co-exposure to heavy metals and phthalates, *Oourania Anesti, Greece*

Building blocks of executive function as mediators of the association of prenatal manganese exposure with problem-solving skills among adolescents, *Anna Oppenheimer, United States*

In-utero exposure to indoor air pollution or tobacco smoke and cognitive development in a South African birth cohort study, *Anke Huels, United States*

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13:00 - 14:00 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

13:00 – 13:30 Display of posters at the E-poster gallery, Questions & answers over the posters

13:30 – 14:00 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 21 / PVG 22 / PVG 23 / PVG 24 / PVG 25*

14:00 - 15:00 / STATUE OF LIBERTY HALL (HALL 1)

LIGHTNING TALKS 7

Environmental Racism and Inequities

Chairs: *Ami Zota, United States*

Yanelli Nunez, United States

Environmental Racism: The Relationship Between Historical Residential Redlining and Current Environmental Hazards, *Jaime Madrigano, United States*

The “cost” of noise at work: an occupational injustice among low wage workers and communities, *Abas Shkemi, United States*

Asthma and Environmental Justice at Ezra Prentice Homes: The South End Community Health Survey, *Stacy M Pettigrew, United States*

COVID-19 Highlights an Environmental Injustice: Influence of Energy Insecurity on Urban Outdoor Air Pollution during Community Lockdown in South-Central Chile, *Matthew Shupler, United Kingdom*

Exposure to per and polyfluoroalkyl acids (PFAAs) from diet and lifestyle factors among Inuit adults of Nunavik, Canada, *Amira M Aker, Canada*

Is the installation of stormwater control measures (i.e., green infrastructure) associated with racial and ethnic minority displacement?, *Alisha Yee Chan, United States*

Exploring the connection between air pollution and COVID-19 in Louisiana, *Pornpimol Kodsup, United States*













Experiences of female agricultural workers in Michigan: Perspectives from the Michigan Farmworker Project, *Alexis J Handal, United States*

Women’s empowerment as a pathway to sustainable and modern energy for all: evidence from the Demographic and Health Surveys, *Daniel Bogale Odo, Ethiopia*

Ambient air pollution and socioeconomic status in China, *Yuzhou Wang, United States*



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13:45 - 15:15 / BROOKLYN BRIDGE HALL (HALL 2)

PECHA KUCHA SESSION

Chair: *Ulrike Gehring, Netherlands*
Youn-Hee Lim, Denmark

Cardiovascular disease mortality and transportation noise: relative and absolute excess risk by age and gender, *Danielle Vienneau, Switzerland*

Can Weather Help Explain 'Why Now?': The Potential Role of Hourly Temperature as a Stroke Trigger,

Sebastian Thonet Rowland, United States

Urban heat islands and heat health warning systems in Mediterranean cities. Results from the Life ASTI project,

Francesca Dè Donato, Italy

Climate justice and California's methane super-emitters: An environmental equity assessment of community proximity and exposure intensity, *Joan A Casey, United States*

The Environmental Injustice of Beauty: an intersectional analysis of vaginal care products by race/ethnicity and socioeconomic status, *Greta K. Martin, United States*

Association between county-level coal-fired power plant pollution and racial disparities in preterm births from 2000 to 2018, *Misbath Daouda, United States*

Air Pollution and environmental justice in Latin America: where are we and how can we move forward?,

Nelson Gouveia, Brazil

The role of long-term air pollution for COVID-19 infection and severity during pregnancy, *Joan A Casey, United States*

A cluster analysis of the social and environmental health impacts of the COVID-19 pandemic among low-income youth, *Nadav Lev Sprague, United States*

Association between residential proximity to hydraulically fractured oil and gas wells and adverse birth outcomes in California (2006-2015), *Rachel Morello Frosch, United States*

14:00 - 15:00 / TIMES SQUARE HALL (HALL 3)

PANEL DISCUSSION 5

Revolutionary Air Quality Observations from the NASA TEMPO Mission for the Environmental Epidemiology Community

Chairs: *Aaron Naeger, United States*
Michael Newchurch, United States
Allan Just, United States
Elena Colicino, United States
Iván Gutiérrez Avila, United States

14:00 - 15:00 / EMPIRE STATE BUILDING HALL (HALL 4)

NEW MEMBERS' MEETING

Led by *Beate Ritz, United States*
Musa Kana, United States
Michelle Turner, Spain

14:00 - 15:00 / GRAND CENTRAL HALL (HALL 5)

LIGHTNING TALKS 8

Environmental Exposures and Mental Health

Chairs: *Rupa Basu, United States*
Cole Brokamp, United States

Long-Term Air Pollution Exposures and Major Depression in Older U.S. Adults: The Health and Retirement Study, *Rachel S Bergmans, United States*

Early life air pollution exposure elevates general psychopathology risk at the transition to adulthood, *Aaron Reuben, United States*

Associations of Short-term Exposure to Air Pollution and Ambient Temperature Increase with Psychiatric Admissions in Elderly Adults, *Xinye Qiu, United States*

Early pregnancy exposure to metals and maternal depressive symptom trajectories in Project Viva, *Lisa B Rokoff, United States*

The association between fine particulate matter exposure and anxiety in US-based cohort Nurses' Health Study II, *Unnati V Mehta, United States*

Prenatal Exposure to Perfluoroalkyl Substances and Mental Health in Childhood, *Jiajun Luo, United States*

Air pollution exposure and different dimensions of depression: findings from the French CONSTANCES cohort, *Bénédicte Jacquemin, France*

Ambient Heat and Risk of Emergency Department Visits for Mental Health among Adults in the United States, *Amruta Nori Sarma, United States*













Association of neighborhood greenness with depressive symptoms in elderly women, *Hicran Altug, Germany*

The association between drought conditions and occupational psychosocial stress among Midwestern U.S. farmers: an occupational cohort study, *Jesse D Berman, United States*

15:00 - 15:30 / BREAK



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15:30 - 17:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 11

Advancing Racial Health Equity through Studies of the Environment and Epigenetic Aging

Chairs: *Jamaji C Nwanaji Enwerem, United States*
Kristen Malecki, United States

Embracing a “Compound” Exposome Approach to Better Understand Environment and DNA Methylation Age Relationships, *Jamaji C Nwanaji Enwerem, United States*
Neighborhood deprivation and epigenetic aging, *Kaitlyn G Lawrence, United States*
Epigenetic Predictors of Mortality and Neighborhood Disadvantage, *Cavin K Ward Caviness, United States*
Nasal DNA Methylation Architecture of the {ACE2} gene and Epigenetic Aging, *Andres Cardenas, United States*
Shift Work, DNA methylation and Epigenetic Age, *Alexandra J White, United States*
Neighborhood Disadvantage, Environmental Justice, Mental Well-Being and Epigenetic Markers of Biological Aging Across Urban and Rural Context, *Kristen Malecki, United States*

15:30 - 17:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 12

Public Health Emergency Response During COVID-19 and Beyond: Empowering Epidemiologic Science Through Data Coordination, Funding, Academic Networks, and Implementation Science

Chairs: *Richard Kwok, United States*
Aubrey Miller, United States

NIH DR2: Facilitating Harmonization of COVID-19 Epidemiologic Research Through the Availability of Research Tools and Common Measures, *Richard Kwok, United States & Aubrey Miller, United States*
Leveraging the Fire Fighter Cancer Cohort Study: Evaluating the association of per- and polyfluoroalkyl substances (PFAS) exposures with COVID-19 symptoms and antibody response, *Jeff Burgess, United States*
COVID-19 Testing for Underserved and Vulnerable Populations: The NIH Rapid Acceleration Of Diagnostics (RADx) Initiative, Experiences from the field, *Irya Hertz Picciotto, United States*
The NIEHS DR2 Network: Addressing COVID-19 Environmental Health Issues Through A Multidisciplinary, Multi-Institution Academic Community of Practice, *Erin Haynes, United States*
Implementation challenges of a climate-disease monitoring system in the Amazon, *William Pan, United States*

15:30 - 17:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 13

The Dual Bottom Line: Case Studies of the Health and Climate Benefits of Active Mobility

Chairs: *Matthew Raifman, United States*
Patrick Kinney, United States

Health impacts of electric micro-mobility transitions in Barcelona: a scenario analysis, *Natalie Mueller, Spain*
Mortality Implications of Increased Active Mobility for a Proposed Regional Transportation Emission Cap-and-Invest Program, *Matthew Raifman, United States*
The effect of super-sized passenger vehicles on walking and cycling, *Alistair Woodward, New Zealand*
Early results from Te Ara Mua Future Streets: an equity-focused active travel intervention study, *Alexandra Kathryn Macmillan, New Zealand*

15:30 - 17:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 13













Endocrine Disrupting Chemicals and Cardiometabolic Health across the Life Course

Chairs: *Tamarra James-Todd, United States*
Barrett Welch, United States

Chlorinated persistent organic pollutants in plasma and risk of cardiovascular disease: a prospective nested case-control study in two Swedish cohorts, *Carolina Donat Vargas, Sweden*
Exposure to lipophilic chemicals and glucose homeostasis in youth, *Brittney O. Baumert, United States*
Per- and polyfluoroalkyl substances and sleep quality among reproductive-aged Black women, *Chad Matthew Coleman, United States*
Early-life associations between per- and polyfluoroalkyl substances and serum lipids in a longitudinal birth cohort, *Annelise Jayne Blomberg, United States*
Perfluoroalkyl and polyfluoroalkyl substances (PFAS) and PFAS Mixtures with Incident Hypertension: the Study of Women’s Health Across the Nation 1999-2017, *Ning Ding, United States*
Racial/ethnic-specific associations of urinary phenols and parabens with adipokines in midlife women: The Study of Women’s Health Across the Nation, *Seulbi Lee, United States*



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15:30 - 17:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 14

Water Exposures and Adverse Health Outcomes

Chairs: *Agneta Akesson, Sweden*
Elise Elliott, United States

Breastfeeding Initiation and Duration after High Exposure to Perfluoroalkyl Substances through Contaminated Drinking Water: A Cohort Study from Ronneby, Sweden, *Christel Nielsen, Sweden*
Nitrate in drinking water and risk of birth defects: Findings from a study of over one million births in Denmark, *Leslie Thomas Stayner, United States*
Drinking water disinfection byproducts and ingested nitrate with the risk of endometrial cancer in postmenopausal women, *Danielle N Medgyesi, United States*
Associations between exposure to drinking water chlorination by-products and congenital malformations—a nation-wide register-based prospective study including 600,000 births, *Melle Säve Söderbergh, Sweden*
Chlorination by-products in drinking water and risk of bladder cancer – a population-based cohort study, *Emilie Helte, Sweden*

Ethical implications of research on “Water exposures and adverse health outcomes”. Discussion by Atanu Sarkar, Canada & Katarzyna Kordas, United States

17:00 - 17:30 / BREAK

17:30 - 18:30 / STATUE OF LIBERTY HALL (HALL 1)

E-POSTER DISCUSSION 7

Use of (Low-Cost) Sensors in Environmental Epidemiology - Opportunities and Challenges

Chairs: *Darby Jack, United States*
Jianzhao Bi, United States

Particulate Matter Air Pollution in Kolkata, India: Trends and application of Low Cost Sensors, *V. Faye Mcneill, United States*
Impact of Spatiotemporal Factors on Exposure to PM2.5 as Residents move between Residential, Commercial and Recreational areas, *Sakshi Jain, Canada*
A Longitudinal Study on the Impact of Indoor Temperature on Proximal Heat-Related Symptoms in Older Adults Living in Non-Air-Conditioned Households, *Anais Teyton, United States*
Wearable sensor-based air and skin temperature (micro)environments during summer: a post hoc randomized 2x2 cross-over trial analysis, *Andria Constantinou, Cyprus*
Living Labs and other participatory approaches applied to research on multiple environmental exposures and chronic risks, *Olivier Laurent, France*

17:30 - 18:30 / BROOKLYN BRIDGE HALL (HALL 2)

E-POSTER DISCUSSION 8

Using Administrative Data for Env Epi Studies Beyond Mortality and Cardio-respiratory Morbidity: Opportunities and Challenges

Chairs: *Michelle Bell, United States*
Maria José Rosa, United States

Association between exposure to PM2.5 components and disease aggravation in Parkinson’s disease: an analysis in New York State, *Yanelli Nunez, United States*
The impact of air pollution on mortality risk in the older adults with Alzheimer’s disease and related dementias (ADRD), *Shuxin Dong, United States*
Short-term associations between ground-level ozone exposure and urinary system disease hospital admissions through the emergency room in Beijing, China, *Lingzhi Chu, United States*
Exposure to Industrial Hog Operations and Gastrointestinal Illness in North Carolina, USA, *Arbor J. Quist, United States*
Air pollution and emergency department visits for diseases of the musculoskeletal system, Toronto, Canada, *Mieczyslaw Szyszkowicz, Canada*

17:30 - 18:30 / TIMES SQUARE HALL (HALL 3)

E-POSTER DISCUSSION 9













Fossil Fuels: Exposure Assessment and Related Adverse Health Outcomes

Chairs: *Nicole Deziel, United States*
Ian Tang, United States

Exposure to Spill-related Chemicals and Incident Myocardial Infarction among Deepwater Horizon Response and Cleanup Workers, *Dazhe Chen, United States*
North Carolina’s Changing Energy Generation Profile and Reductions in Key Air Pollutants, 2000-2019, *Adrien A Wilkie, United States*
The Government-led initiative for increased LPG adoption in Rwanda: modelling demand scenarios and corresponding health impacts, *Iva Čukić, United Kingdom*
Environmental inequality of personal exposure to PM2.5 and black carbon (BC) within- and between-communities in rural Beijing, China, *Xiaoying Li, Canada*
Decrease in airborne PAH concentrations in Krakow after intensified actions aiming to ban use of solid fuels for domestic heating, *Renata Majewska, Poland*
Cumulative Lead Exposure Resulting from Coal Power Plants in India, *Aaron J Specht, United States*



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 Keynote Sessions	 SNRN & Networking Sessions	 E-Poster Viewing Slots
 Lightning Talks	 Symposia	 Break

17:30 - 18:30 / EMPIRE STATE BUILDING HALL (HALL 4)

WOMEN'S NETWORKING SESSION

Chairs: *Joan Casey, United States*

Marianthi-Anna Kioumourtzoglou, United States

17:30 - 18:30 / GRAND CENTRAL HALL (HALL 5)

SNRN 1: PHD to POSTDOC SESSION

Chairs: *Amira Aker, Canada*

Max Aung, United States

Panelists: *Apolline Saucy, Spain*

Blesson Varghese, Australia

Tanya Alderete, United States

Daniel Carrion, United States

18:30 - 19:00 / BREAK

19:00 - 20:30 / STATUE OF LIBERTY HALL (HALL 1)

TRADITIONAL ORAL SESSION 15

Environmental Exposure Impacts on Reproductive Outcomes

Chairs: *Mildred Maisonet, United States*

Musa Kana, United States

Prenatal exposure to toxic and essential metal/metalloid mixtures is associated with placental genomic signatures, *Lauren A Eaves, United States*

Increased arsenic levels in both environmental measurements and biomonitoring results are associated with elevated risk of spina bifida, *Chihfu Wei, United States*

Performance of Urine, Blood, and Integrated Metal Biomarkers in Relation to Birth Outcomes in a Mixture Setting, *Pahriya Ashrap, United States*

Association between Urinary Phthalate Metabolites and Biomarkers of Oxidative Stress in Pregnant Women - Tainan Birth Cohort Study (TBCS), *Po Chin Huang, Taiwan*

Prenatal phthalate exposure in relation to placental corticotropin releasing hormone (pCRH) concentrations in the CANDLE study, *Emily S Barrett, United States*

Ultraviolet radiation and age at natural menopause in a nationwide, prospective US cohort, *Huichu Li, United States*

19:00 - 20:30 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 14

Innovative Methods for Identifying Perinatal Critical Windows with Mixtures

Chairs: *Ander Wilson, United States*

Marianthi-Anna Kioumourtzoglou, United States

Critical Windows of Exposure: why do they exist and what do they tell us?, *Robert O. Wright, United States*

Bayesian Kernel Machine Regression Distributed Lag Models, *Ander Wilson, United States*

Bayesian distributed lag interaction models using spike and slab priors, *Joseph Antonelli, United States*

Estimating Perinatal Critical Windows to Environmental Mixtures via Structured Bayesian Regression Tree

Pairs, *Daniel Mork, United States*

Critical Window Variable Selection for Mixtures: Estimating the Impact of Multiple Air Pollutants on Stillbirth, *Joshua Warren, United States*

Lagged Weighted Quantile Sum Regression, *Chris Gennings, United States*

19:00 - 20:30 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 15

Pathways to Healthy and More Equitable Cities: Results from Vancouver, London, Accra, and Beijing

Chairs: *Jill Baumgartner, Canada*

Raphael Arku, United States

Spatial modelling and inequalities in community noise in Accra, Ghana, *Sierra N Clark, United Kingdom*

Identifying vulnerable urban neighbourhoods and their environmental, density, and housing characteristics in Accra, Ghana using census and remote sensing data, *Robert Charles MacTavish, Canada*

The change in life expectancy inequality in London, *Theo Rashid, United Kingdom*

Geographic variation of life expectancy and all-cause mortality in Beijing, *Qiuju Deng, China*

Quantifying within-city inequalities in child mortality across neighbourhoods in Accra, Ghana, *Honor Bixby, Canada*

A spatiotemporal analysis of inequalities in life expectancy and 20 causes of mortality in sub-neighbourhoods of Metro Vancouver, Canada, 1990-2016, *Jessica Yu, Canada*

Land use regression modelling of ambient PM2.5 air pollution in Accra, Ghana, *Abosede S Alli, United States*



SCIENTIFIC PROGRAM Tuesday, August 24, 2021

19:00 - 20:30 / GRAND CENTRAL HALL (HALL 5)

LIGHTNING TALKS 9

Environmental Exposures and Child Neurodevelopment

Chairs: Marc Weisskopf, United States

Hannah Laue, United States

Early-life exposure to lead and antisocial behaviors during childhood and adolescence, *Jaime D. Reyes Sánchez, Mexico*

Fluoride exposure and internalizing symptoms in adolescents in a United States cohort, *Emily A. Adkins, United States*

Residential greenspace and internalizing behaviors in early childhood, *Marnie F HazJehurst, United States*
Does Early Life Phthalate Exposure Mediate Racial Disparities in Children's Cognitive Abilities?, *Marisa A Patti, United States*

Evidence for Transgenerational Effects on Autism Spectrum Disorder Using Multigenerational Space-time Cluster Detection, *James A Vanderslice, United States*

Critical windows of metal mixture exposure on functional connectivity in adolescents, *Megan K. Horton, United States*

Effects of prenatal exposure to air pollution on toddler neurodevelopment and effect modification by ambient temperature, *Ting Yu, China*

Prenatal PM2.5 and subcortical volumes in children with neurodevelopmental disorders, *Elza Rechtman, United States*

Fine particulate matter relates to white matter microstructure alterations in U.S. children, *Megan M. Herting, United States*

Portable HEPA Filter Air Cleaner Use During Pregnancy and Children's Behavior Problem Scores: The UGAAR Randomized Controlled Trial, *Undarmaa Enkhbat, Canada*













20:30 - 21:30 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

20:30 – 21:00 *Display of posters at the E-poster gallery, Questions & answers over the posters*

21:00 – 21:30 *Poster Viewing Group discussions in the public chat channels in Networking Lounge*

Poster Viewing Groups (PVG): PVG 26 / PVG 27 / PVG 28 / PVG 29

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 Lightning Talks	 Symposia	 Break

21:30 - 23:00 / BROOKLYN BRIDGE HALL (HALL 2)

REPLAY OF SESSION: SYMPOSIUM 4

Hallmarks of Environmental Insults

Chairs: Annette Peters, Germany

Andrea A Baccarelli, United States

Hallmarks of Environmental Insults, *Annette Peters, Germany*

The Hallmarks of Aging and Environmental Insults: Molecular Mechanisms, *Andrea A Baccarelli, United States*

The Hallmarks of Environmental Insults and early childhood development, *Tim Nawrot, Belgium*

The hallmarks of environmental issues and the brain, *Jordi Sunyer, Spain*

Discussant: Philippe Grandjean, Denmark

21:30 - 23:00 / TIMES SQUARE HALL (HALL 3)

REPLAY OF SESSION: TRADITIONAL ORAL SESSION 8

Exposure Assessment: Air Pollution

Chairs: Yuming Guo, Australia

Rachel Tham, Australia













New monitoring paradigms and designs for air pollution assessment in epidemiologic cohorts, *Sun Young Kim, South Korea*

A Random Forest Model for PM2.5 Personal Exposure Assessment for a Chinese Cohort, *Yanwen Wang, China*
Personal exposure to particulate matter in various modes of transport in Kathmandu, Nepal, *Binaya Kc, Nepal*
Predictors of indoor PM2.5 and CO in an urban slum settlement in Fort Portal city, Uganda, *Winnifred K Kansime, Uganda*

A Deep Learning Approach for Meter-Scale Air Quality Estimation in Urban Environments Using Very High-Resolution Satellite Imagery, *Ata Akbari Asanjan, United States*



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 Lightning Talks	 Symposia	 Break

07:30 - 08:30 / STATUE OF LIBERTY HALL (HALL 1)

E-POSTER DISCUSSION 10 COVID-19

Chairs: *Kai Chen, United States*
Mahnaz Badpa, Germany

Air quality changed disproportionately across the world urban agglomerations, countries, and regions due to COVID-19 lockdown measures, *Jiawei Zhang, Denmark*
Social-distancing Fatigue: Evidence from Real-time Crowd-sourced Traffic Data, *Jenni A Shearston, United States*
Effects of the COVID-19 shutdown on spatial and temporal patterns of air pollution in New York City, *Masha Pitranggon, United States*
Household air pollution and associated risk factors before and during COVID-19 Hard Lockdown in South Africa, *Joshua D Vande Hey, United Kingdom*
Association between air quality and COVID-19 infection case numbers, *Wei Jie Seow, Singapore*

07:30 - 08:30 / BROOKLYN BRIDGE HALL (HALL 2)

PANEL DISCUSSION 6 SNRN/CAPE

We Want to Hear From You: Why and How to Write an Environmental Epidemiology Commentary
Chairs: *Laura Corlin, United States*
Mary Willis, United States

Panelists: *Laura Corlin, United States*
Mary Willis, United States
Manolis Kogevinas, Spain
Keeve Nachman, United States
Haneen Khreis, United States

07:30 - 08:30 / TIMES SQUARE HALL (HALL 3)

PANEL DISCUSSION 7

Building the Evidence Base to Advance Climate And Health Practice: Lessons Learned from Ongoing Translational Research Projects at the Centers for Disease Control and Prevention (CDC) and Its Partners

Chair: *Ambarish Vaidyanathan, United States*

Panelists: *Paul Schramm, United States*
Jesse Bell, United States
Arie Manangan, United States
Shubhayu Saha, United States
Matthew Roach, United States
Erin Lipp, United States

07:30 - 08:30 / EMPIRE STATE BUILDING HALL (HALL 4)

E-POSTER DISCUSSION 11 Emerging Topics

Chairs: *Beate Ritz, United States*
Elishama B. Yomi-Agbajor, Nigeria

A geospatial modeling approach to quantifying risk of exposure to environmental chemical mixtures via a common molecular initiating event, *Kristin M Eccles, United States*
Collaborative Research: Partnering with the community to improve the science and its impact, *Melanie Pearson, United States*
Estimating the relative contribution of environmental and genetic factors to different aging traits by comprising correlated variables into risk scores, *Claudia Wigmann, Germany*
The climate exposome: a new tool for addressing the health impacts of climate change, *Denis A. Sarigiannis, Greece*
Personal External Exposomes from Around the World, *Krystal J Godri Pollitt, United States*

08:30 - 09:30 / E-POSTER GALLERY & NETWORKING LOUNGE













MORNING NETWORK & E-POSTER VIEWING

08:30 - 09:00 Display of posters at the E-poster gallery, Questions & answers over the posters
09:00 - 09:30 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 30 / PVG 31 / PVG 32 / PVG 33 / PVG 34*



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09:30 - 11:00 / STATUE OF LIBERTY HALL (HALL 1)

KEYNOTE SESSION 3

Slow Violence: Place, Race, and Local Environmental Inequity

Chairs: *Devon Corcia Payne-Sturges, United States*
Margaret Hicken, United States

In Pursuit of Environmental and Climate Justice
Catherine Coleman Flowers, United States

Critical Infrastructures and the Fight for Environmental Justice
Danielle Purifoy, United States

11:00 - 11:30 / BREAK

11:30 - 13:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 16

Health Effects of Glyphosate Herbicide Exposure: Experimental and Epidemiologic Evidence Across the Lifespan

Chairs: *Paul J Mills, United States*
Jose Ricardo Suarez Lopez, United States

The Ramazzini Institute studies on Glyphosate based herbicides: pilot phase results and state of the art of Global Glyphosate study, *Daniele Mandrioli, Italy*
Associations of Glyphosate with Testosterone, Cortisol, DHEA, and Estradiol in Ecuadorian Adolescents, *Briana Nadine Cortez Chronister, United States*
Human glyphosate exposure changes over 25 years and implications for liver health, *Paul J Mills, United States*

Residential proximity to agricultural glyphosate use and neurobehavior in the CHAMACOS study, *Robert B. Gunier, United States*

Glyphosate exposure and neurobehavioral outcomes in farmworkers from Zarcero County, Costa Rica, *Carly Hyland, United States*

Associations of herbicides and DEET repellent metabolites with neurobehavioral performance in adolescents, *Jose Ricardo Suarez Lopez, United States*

11:30 - 13:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 17

Pathway to Equity in Water, Sanitation and Hygiene (WASH) in Africa Challenges and Opportunities

Chairs: *Firdu Zawide, United States*
Adetoun Mustapha, Nigeria

Pathway to equity in water, sanitation and hygiene (WASH) in Africa challenges and opportunities, *Firdu Zawide, United States*

Innovative Approach in Response to the Challenges of Equity to Water, Sanitation and Hygiene (WASH) in Ethiopia, *Wondwossen Birke Eshete, Ethiopia*

Environmental pollution and water sanitation and hygiene challenges in Nigeria: can it be solved?, *Temitope Ayodeji Laniyan, Nigeria*

Overview of Regional and International Collaboration on Water, Sanitation and Hygiene in Africa, *Andrew Noah Reigns, Nigeria*

Pathway to equity in water, sanitation and hygiene (WASH) in Africa: Ethical Implications, *Adetoun Mustapha, Nigeria*

11:30 - 13:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 18

Climate Change and Maternal and Neonatal Health Outcomes: New Methods to Address Heat Impacts in Vulnerable Populations

Chairs: *Kristie Ebi, United States*
Anthony Ngugi, Kenya

Systematic review of the effect of ambient heat on maternal health outcomes, *Matthew Chersich, South Africa*
Effects of ambient temperature on maternal behaviour and health-related functioning in Burkina Faso, *Cherie Part, United Kingdom*













Heat stress and risk of preterm birth: A case-crossover study from Sweden 2014 to 2019, *Massimo Stafoggia, Italy*

Extreme heat experienced by pregnant subsistence farmers in The Gambia: impact on maternal physiology and fetal distress, *Ana Bonell, United Kingdom*

Association between maternal exposure to extreme heat and the risk of preterm birth in China: a sibling-matched study, *Qiong Wang, China*



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11:30 - 13:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 16

Air Pollution and Respiratory Health

Chairs: *Michelle Turner, Spain*
Ashtyn Areal, Germany

Modification of Asthma Clinical Trial Treatment Efficacy by Social and Environmental Exposures, *Lizbeth Gomez, United States*

Association between prenatal and early life household air pollution exposure and child lung function in rural Ghana, *Prince Darko Agyapong, Ghana*

The Breathe Easy Study: Impacts of Ventilation Improvements on IAQ and Adult Asthma in 40 Existing Homes in Chicago, IL, *Insung Kang, United States*

Comparing types of exposure metrics for identifying the effects of air pollution: an application in a panel of COPD patients, *Dimitris Evangelopoulos, United Kingdom*

Genetic susceptibility in air pollution-induced airway inflammation in elderly women, *Sara Kress, Germany*
Is respiratory care carbon conscious? Rationale and future implications for the CARBON respiratory program, *John Bell, United Kingdom*

11:30 - 13:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 17

Exposure to Pesticides and Adverse Health Outcomes

Chairs: *Jonathan Chevrier, Canada*
Yun-Hee Choi, South Korea

Associations between 3-phenoxybenzoic acid levels and hematological measures in adults: Korean National Environmental Health Survey 2012–2014, *Yun Hee Choi, South Korea*

Residential Proximity and Cumulative Risk Assessment of Agricultural Pesticide Applications in California, *Alexis Temkin, United States*

Gestational Exposure to Toxicants and Autistic Behaviors using Bayesian Quantile Regression, *Joshua D. Alampi, Canada*

Residential proximity to agricultural crops and adaptive behaviors in children with autism spectrum disorder from the French ELENA cohort, *Jeanne Sandrine Ongono, France*

Metabolomics profiles associated with an organic diet intervention in school children in Limassol, Cyprus: A cluster-randomized cross-over trial, *Corina Konstantinou, Cyprus*

Combined exposure to low level neurotoxic chemicals and child's neuropsychological performance, *Janja Snoj Tratnik, Slovenia*

13:00 - 14:00 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

13:00 – 13:30 Display of posters at the E-poster gallery, Questions & answers over the posters

13:30 – 14:00 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 35 / PVG 36 / PVG 37 / PVG 38 / PVG 39*

14:00 - 15:00 / STATUE OF LIBERTY HALL (HALL 1)

ISEE GENERAL BUSINESS MEETING

Led by *ISEE Treasurer, Michelle Turner, Spain*
ISEE President, Mark Nieuwenhuijsen, Spain
ISEE President-Elect, Andrea Baccarelli, United States

15:00 - 15:30 / BREAK

15:30 - 17:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 19

What Does It Mean to Think Causally About Mixtures Epidemiology?

Chairs: *Thomas F Webster, United States*
Marc G Weisskopf, United States

Mixtures and the Table Two Problem, *Thomas F Webster, United States*













What do we mean by the effect of a mixture as a whole?, *Marc G Weisskopf, United States*

Models are a nuisance, *Alexander P Keil, United States*

Applying a potential outcomes framework to estimate policy-relevant effects of exposure mixtures, *Jessie P. Buckley, United States*



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15:30 - 17:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 20

Civic Engagement by Scientists in North America: Experiences and Opportunities

Chairs: *George D Thurston, United States*
Paul Villeneuve, Canada

Scientist Civic Engagement and the US Ozone Standards in 2020, *Kelvin C Fong, United States*

Scientist Civic Engagement and the US 2020 Fine Particulate Matter Standards, *Joan A Casey, United States*

Scientist Civic Engagement and the US EPA's "Strengthening Transparency in Regulatory Science" Rule, *George D Thurston, United States*

Indoor radon regulation in Canada: Civic engagement of concerned scientists, *Atanu Sarkar, Canada & Anne Marie Nicol, Canada*

Stepping Out Of The Lab: Civic Engagement Across Scientific Societies and the Broader Scientific Community in Recent Years, *Fernando Tormos Aponte, United States*

15:30 - 17:00 / TIMES SQUARE HALL (HALL 3)

TRADITIONAL ORAL SESSION 18

Short-term Air Pollution Exposures and Adverse Health Outcomes

Chairs: *Evangelia Samoli, Greece*
Chen Chen, United States

Air pollution and hospitalization of patients with idiopathic pulmonary fibrosis in Beijing: a time-series study, *Samuel Cai, United Kingdom*

Recent exposure to air pollution and its effect on cognitive and mental health: A citizen science panel study in Barcelona, *Florence Gignac, Spain*

Air Pollution Exposure is Associated with Cognitive Performance: Results from the Einstein Aging Study, *Nelson Arley Roque, United States*

Personal exposure to outdoor particulate matter and greenspace in Delhi, India, *William Mueller, United Kingdom*

Cumulative joint effects of air pollution and extreme heat events among hemodialysis patients, *Richard V Remigio, United States*

Daily levels of coarse inhalable particles and sick leaves, *Timo Lanki, Finland*

15:30 - 17:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 19

Exposure Assessment: Biomarkers

Chair: *Douglas Walker, United States*
Haotian Wu, United States

Central Nervous System (CNS)-Derived Extracellular Vesicles (EVs) as Novel Biomarkers for Environmental Exposure and Disease Progression in ALS, *Nicole Comfort, United States*

Determinants for serum half-lives for linear and branched perfluoroalkyl substances after long-term, high exposure — a study in Ronneby, Sweden, *Axel Andersson, Sweden*

Widespread Exposure to Emerging and Previously Unmeasured Chemicals in Commerce in Pregnant women Across the US, *Tracey Woodruff, United States*

Combination of multi-residue methods for organic pollutant(s) and metal(s) analysis in hair - Towards a comprehensive assessment of population exposome, *Alba Iglesias González, Luxembourg*
Assessing the Effects of Metal Mixtures in Urine and Blood on Kidney Function, *Maria D. Poliūtis, United States*

15:30 - 17:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 20

Exposures Mixtures: An Exposome Approach

Chairs: *Lida Chatzi, United States*
Lea Maitre, Spain

Non-linear and non-additive associations between the pregnancy exposome and birthweight, *Elena Colicino, United States*

Urban environment and childhood obesity outcomes and weight-related behaviours in primary school children, *Jeroen De Bont, Sweden*

Prenatal exposure to lipophilic endocrine-disrupting chemicals and liver injury in children using chemical mixture approaches, *Vishal Midya, United States*

Phenols, phthalates and thyroid hormone levels during pregnancy; relying on toxicological data and Adverse Outcome Pathways to inform epidemiological analysis, *Claire Philippat, France*













Associations of prenatal exposure to a mixture of EDCs with child social responsiveness in a pooled cohort study, *Ghassan B Hamra, United States*

Environmental chemicals and cross-sectional cognition among adults in the National Health and Nutrition Examination Survey, *Kelly M Bakulski, United States*

17:00 - 17:30 / BREAK



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	Lightning Talks		Symposia		Break

17:30 - 18:30 / STATUE OF LIBERTY HALL (HALL 1)

E-POSTER DISCUSSION 12

Methodological Advances and Considerations in Environmental Epidemiology

Chairs: *Jessie Buckley, United States*

Max Aung, United States

Emulating causal dose-response relations between air pollutants and mortality in elders, *Yaguang Wei, United States*

Spatiotemporal characterization of urban activity and environment with imagery and deep learning, *Ricky Nathvani, United Kingdom*

Knot placement in the Distributed non-linear lag models (DNLM) framework, *Alison M Rector, United States*

Seasonal Confounding in Studies of Temperature and Preterm Birth: A Simulation Study, *Mengjiao Huang, United States*

Mortality displacement as a type of selection bias: consequences and causal perspectives, *Honghyok Kim, United States*

The Impact of Sample Timing and Study Confidence on Mean Birth Weight Differences Detected in a Meta-analysis of PFHxS, *Alexandra Larsen, United States*

17:30 - 18:30 / BROOKLYN BRIDGE HALL (HALL 2)

E-POSTER DISCUSSION 13

Molecular Environmental Epidemiology

Chairs: *Carmen Marsit, United States*

Susanna Mitro, United States

Gene-Environment Joint Linkage and Association Analysis of Arsenic Exposure and Diabetes-Related Traits in the Strong Heart Family Study, *Matthew O. Gribble, United States*

Towards epigenomic and metabolomic profiles of chronic organophosphate exposure in residents of California Central Valley, *Qi Yan, United States*

Associations between maternal asthma and atopy and breast milk-derived extracellular vesicle microRNA profiles in the PRISM pregnancy cohort, *Anne K. Bozack, United States*

Bacterial modification of the association between arsenic and autism-related social behavior scores, *Hannah E Laue, United States*

Ambient Air Pollution Exposure is Associated with the Infant Gut Microbiota, *Maximilian J. Bailey, United States*

Duration of PM2.5 exposure and alterations in the serum metabolome, *Robert B Hood, United States*

17:30 - 18:30 / TIMES SQUARE HALL (HALL 3)

E-POSTER DISCUSSION 14

Obesogenic Environmental Exposures

Chairs: *Damaskini Valvi, United States*

Mike He, United States

Associations of neonicotinoids with insulin and glucose homeostasis parameters in US adults: NHANES 2015-2016, *Ann M Vuong, United States*

Impact of maternal nutritional status during pregnancy on the associations between persistent organic pollutants and childhood overweight, *German Cano Sancho, France*

Exposure to Phthalates May Accelerate Body Fat Gain in Midlife Women: The Study of Women's Health Across the Nation (SWAN), *Mia Q. Peng, United States*

Neighborhood drivability and diabetes incidence in Toronto, Canada, *Nicole R Den Braver, Netherlands*

The Impact of Long-Term Air Pollution Exposure on Type 1 Diabetes Mellitus-Related Mortality among U.S. Medicare Beneficiaries, *Trenton Honda, United States*

17:30 - 18:30 / EMPIRE STATE BUILDING HALL (HALL 4)

GENERAL NETWORKING SESSION

Chairs: *Jaime Hart, United States*

Kate Weinberger, Canada

17:30 - 18:30 / GRAND CENTRAL HALL (HALL 5)

SNRN 2: NON ACADEMIC JOBS SESSION

Chairs: *Temitope Adebayo, Switzerland*

Musa Kana, United States

Panelists: *Cavin Ward-Caviness, United States*

Jaime Madrigano, United States

Veena Singla, United States

18:30 - 19:00 / BREAK



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19:00 - 20:30 / STATUE OF LIBERTY HALL (HALL 1)

TRADITIONAL ORAL SESSION 21

Environmental Exposure Impacts on Respiratory Outcomes and Allergies

Chairs: *Kate Weinberger, Canada*

Radhika Dhingra, United States

Measuring the Association Between Thunderstorms in the Presence of High Pollen and Risk of Severe Asthma,

Morrison Luke Smith, United States

Association of blood trihalomethane concentrations with asthma among U.S. Children: NHANES 2005-2012,

Yixin Wang, United States

Cockroach exposure and perceived stress interact to predict clinical outcomes in childhood asthma, *Felicia A Rabito, United States*

The influence of the urban forest on the association between fine particulate air pollution and onset of childhood asthma, *Louise Duquesne, Canada*

Changes in asthma and general health after Hurricane Harvey: A natural experiment utilizing an asthma clinical trial, Harris County, TX, *Abiodun Oluoyomi, United States*

Impact of vehicular pollution on carboxyhemoglobin levels and respiratory response in urban cyclists, *Oscar David Diaz, Colombia*

19:00 - 20:30 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 21

Inferential Challenges and Methodological Solutions in Air Pollution Epidemiology Studies













Chair: *Tarik Benmarhnia, United States*

Estimating the effect of long-term exposure to PM_{2.5} on mortality in Canadian Community Health Survey Cohort using parametric g-computation, *Chen Chen, United States*

A discussion of competing events in epidemiologic studies of air pollution, *Sindana Ilango, United States*

Causal Inference and Machine Learning approaches to discover de novo sub-populations with heterogeneous air pollution health effects, *Francesca Dominici, United States*

Changes in residential exposure to ambient fine particulate matter due to relocation and long-term survival in Canada: a quasi-experimental study, *Tarik Benmarhnia, United States*

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19:00 - 20:30 / TIMES SQUARE HALL (HALL 3)

JUNIOR INVESTIGATORS' NETWORKING SESSION

Chairs: *Kate Burrows, United States*

Mary Willis, United States

19:00 - 20:30 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 22

Traffic-related Air Pollution and Adverse Health Outcomes

Chairs: *Perry Hystad, United States*

Masna Rai, Germany

Long-term exposure to air pollution, road traffic noise, and heart failure incidence: the Danish Nurse Cohort, *Youn Hee Lim, Denmark*

Environmental Exposure to Traffic Pollution and Motor Function in Adolescence, *Kelly Brunst, United States*

Prenatal exposure to near-roadway air pollution and autism spectrum disorders in children, *Sarah A Carter, United States*

Traffic-related air pollution and olfactory impairment among women in a nationwide US cohort, *Emily J Werder, United States*

Roadway Proximity and Lung Cancer Risk in NIH-AARP Diet and Health Study Participants, *Ian D Buller, United States*

Urban Policy Interventions to Reduce Traffic Emissions and Traffic-Related Air Pollution: A Systematic Evidence Map, *Kristen A. Sanchez, United States*

19:00 - 20:30 / GRAND CENTRAL HALL (HALL 5)

SYMPOSIUM 22

Air Pollution and Human Reproduction: What Do We Know and Where Do We Go From Here?

Chairs: *Amelia Wesselink, United States*

Sabah Quraishi, United States

Air Pollution and Reproduction: A focus on the clinical perspective, *Shruthi Mahalingaiah, United States*

Air pollution and fecundability in two preconception cohort studies, *Elizabeth E Hatch, United States*













Opportunities and challenges in studying air pollution and pregnancy loss, *Sandie Ha, United States*

The unique opportunities and obstacles when integrating personal air pollution monitoring into studies of human fertility, *Audrey J Gaskins, United States*

Air pollution and environmental health disparities: how disadvantaged communities may be particularly susceptible to poor reproductive outcomes, *Anjum Hajat, United States*



SCIENTIFIC PROGRAM Wednesday, August 25, 2021

 E-Poster Discussions	 Panel Discussions	 Traditional Oral Sessions
 ISEE Society Sessions	 Pecha Kucha	 Replay Sessions of Daily Highlights
 Keynote Sessions	 SNRN & Networking Sessions	 E-Poster Viewing Slots
 Lightning Talks	 Symposia	 Break

20:30 - 21:30 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

20:30 – 21:00 Display of posters at the E-poster gallery, Questions & answers over the posters

21:00 – 21:30 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): PVG 40 / PVG 41 / PVG 42

21:30 - 23:00 / STATUE OF LIBERTY HALL (HALL 1)

REPLAY OF SESSION: SYMPOSIUM 11

Advancing Racial Health Equity through Studies of the Environment and Epigenetic Aging

Chairs: *Jamaji C Nwanaji Enwerem, United States*

Kristen Malecki, United States

Embracing a “Compound” Exposome Approach to Better Understand Environment and DNA Methylation Age

Relationships, *Jamaji C Nwanaji Enwerem, United States*

Neighborhood deprivation and epigenetic aging, *Kaitlyn G Lawrence, United States*

Epigenetic Predictors of Mortality and Neighborhood Disadvantage, *Cavin K Ward Caviness, United States*

Nasal DNA Methylation Architecture of the {ACE2} gene and Epigenetic Aging, *Andres Cardenas, United States*

Shift Work, DNA methylation and Epigenetic Age, *Alexandra J White, United States*

Neighborhood Disadvantage, Environmental Justice, Mental Well-Being and Epigenetic Markers of Biological Aging Across Urban and Rural Context, *Kristen Malecki, United States*

21:30 - 23:00 / BROOKLYN BRIDGE HALL (HALL 2)

REPLAY OF SESSION: SYMPOSIUM 15

Pathways to Healthy and More Equitable Cities: Results from Vancouver, London, Accra, and Beijing

Chairs: *Jill Baumgartner, Canada*

Raphael Arku, United States

Spatial modelling and inequalities in community noise in Accra, Ghana, *Sierra N Clark, United Kingdom*

Identifying vulnerable urban neighbourhoods and their environmental, density, and housing characteristics in

Accra, Ghana using census and remote sensing data, *Robert Charles MacTavish, Canada*

The change in life expectancy inequality in London, *Theo Rashid, United Kingdom*

Geographic variation of life expectancy and all-cause mortality in Beijing, *Qiuju Deng, China*













Quantifying within-city inequalities in child mortality across neighbourhoods in Accra, Ghana, *Honor Bixby, Canada*

A spatiotemporal analysis of inequalities in life expectancy and 20 causes of mortality in sub-neighbourhoods of Metro Vancouver, Canada, 1990-2016, *Jessica Yu, Canada*

Land use regression modelling of ambient PM2.5 air pollution in Accra, Ghana, *Abosede S Alli, United States*



SCIENTIFIC PROGRAM Thursday, August 26, 2021

 E-Poster Discussions	 Panel Discussions	 Traditional Oral Sessions
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 Lightning Talks	 Symposia	 Break

07:30 - 08:30 / STATUE OF LIBERTY HALL (HALL 1)

E-POSTER DISCUSSION 15

New Evidence for Air Pollution-related Adverse Health Effects from Asia

Chairs: *Poornima Prabhakaran, India*
Shu-Li Wang, Taiwan

Association between air pollution and hospital admissions for upper respiratory tract infection among children in urban area, Malaysia, *Mohd Faiz Ibrahim, Malaysia*

The Effects of Ambient Air Pollution and Residential Greenness on Metabolic Disease Biomarkers in China, *John S. Ji, China*

Association between Specific PM_{2.5} Chemical Constituents and Preterm Birth in China: A National Birth Cohort Study, *Qin Li, China*

Mortality burden attributable to long-term exposure to ambient PM_{2.5}: a systematic subnational analysis in 296 Chinese cities, *Chunlei Han, Australia*

Spatial variation of outdoor and indoor NO₂ in metropolitan cities in India, *Prince Vijay, India*

07:30 - 08:30 / BROOKLYN BRIDGE HALL (HALL 2)

PANEL DISCUSSION 8

Air Pollution and Dementia: Understanding the Underlying Biological Mechanisms

Chair: *Anna Oudin, Sweden*

Panelists: *Anna Oudin, Sweden*

Lilian Calderón-Garcidueñas, United States

Zorana Jovanovic Andersen, Denmark

Katja Kanninen, Finland

Pavel Rössner, Czech Republic

07:30 - 09:00 / TIMES SQUARE HALL (HALL 3)

TRADITIONAL ORAL SESSION 23

Ultrafine Particles and Health

Chairs: *Scott Weichenthal, Canada*
Dimitris Evangelopoulos, United Kingdom

Transcriptomics reveals the mechanisms of population susceptibility to blood glucose associated with short-term exposure to ambient fine and ultrafine particles, *Yuan Yao, China*

Associations between Short-Term Exposure to Particulate Matter and Ultrafine Particles with Lung Function in Schoolchildren from the German CorPuScula Study, *Lina Glaubitz, Germany*

Short-term risk effects of exposure to ultrafine particles on emergency department visits of renal diseases in New York State, 2013-2017, *Xinlei Deng, United States*

Short-Term Particulate Matter, Ultrafine Particles, and Blood Pressure among Children of the CorPuScula Study in Munich, Germany, *Sarah Lucht, Germany*

Predicting Within-City Variations in Ultrafine Particle and Black Carbon Concentrations in Bucaramanga, Columbia Using Open Source Data and Images, *Marshall Lloyd, Canada*

07:30 - 09:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 24

Urban Living and Ageing and Longevity

Chairs: *Payam Dadvand, Spain*
Cuicui Wang, United States

Developing robust indicators of age-friendly neighborhood environments across urban-rural and socioeconomic gradients in 20 countries from five continents, *Emily J Rugel, Australia*

Urban active living environments and cardiovascular disease mortality: a Canadian national cohort study, *Paul Villeneuve, Canada*

Exposure to air pollution, blue and green spaces and cause-specific mortality in Greece: An ecological study, *Maria Iosifina Kasdagli, Greece*













Effect of heatwaves and greenness on mortality among Chinese elderly people, *Haofan Zhang, China*

Green spaces and risk of dementia-related mortality among the elderly in urban areas in Belgium: a 13-year follow-up census-based study, *Lucia Rodriguez Loureiro, Belgium*

Does urban greenspace reduce racial and socioeconomic disparities in mortality in Philadelphia, PA?, *Leah H Schinasi, United States*



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 Lightning Talks	 Symposia	 Break

07:30 - 09:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 25

Perfluoroalkyl Substances and Health Across the Life Course

Chairs: *Atsuko Araki, Japan*

Zeyan Liew, United States

Perfluoroalkyl and Polyfluoroalkyl Substances and Body Size and Composition Trajectories: the Study of Women's Health Across the Nation 1999-2018, *Ning Ding, United States*

Association between prenatal exposure to perfluoroalkyl substances (PFAS) and acute infectious diseases in infancy in Shandong, China, *Zixia Wang, China*

Perfluoroalkyl substances and risk of myocardial infarction and stroke, *Tessa Schillemans, Sweden*

Associations between liver PFAS concentrations and plasma extracellular miRNAs in a cohort of adolescents undergoing bariatric surgery, *Nikos Stratakis, United States*

Longitudinal analysis of DNA methylation in relation to gestational perfluoroalkyl substance exposure: An epigenome-wide association study, *Yun Liu, United States*

08:30 - 09:30 / E-POSTER GALLERY & NETWORKING LOUNGE

MORNING NETWORK & E-POSTER VIEWING

08:30 - 09:00 Display of posters at the E-poster gallery, Questions & answers over the posters

09:00 - 09:30 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 43 / PVG 44 / PVG 45 / PVG 46*

09:30 - 11:00 / STATUE OF LIBERTY HALL (HALL 1)

KEYNOTE SESSION 4

Chairs: *Beate Ritz, United States*

Joel Kaufman, United States

Breaking the impasse in pesticide and health research risk reduction effectiveness in Africa
Andrea Rother, South Africa

Impacts of Developmental Exposure to Environmental Chemicals on Human Health: The Hokkaido Birth Cohort Study with Global Perspectives

ISEE John Goldsmith Awardee: *Reiko Kishi, Japan*

11:00 - 11:30 / BREAK

11:30 - 13:00 / STATUE OF LIBERTY HALL (HALL 1)

TRADITIONAL ORAL SESSION 26

Occupational Exposures and Health

Chairs: *Yue-Liang Guo, Australia*

Huichu Li, United States

Low-level radon exposure and lung cancer in the Pooled Uranium Miners Analysis (PUMA), *David B Richardson, United States*

Health Services Use and Health Outcomes among Informal Economy Workers Compared with Formal Economy Workers: A Systematic Review and Meta-Analysis, *Nisha Naicker, South Africa*

Canadian Aquaculture: Supporting the need to develop sentinel surveillance programs for antimicrobial resistance among Canadian marine aquaculture facilities, *Cory Ochs, Canada*

Impact of chronic exposure to naphthalene on physical disorders and neurasthenic symptoms among petrol station workers, *Luqman Riaz, Pakistan*

SARS-CoV-2 pandemic among Mexico's private sector workforce: using short-term disability claims to analyze impact and response, *Marcela Tamayo, Mexico*

11:30 - 13:00 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 23

Coordination and Harmonisation of Occupational Cohorts, the international OMEGA-NET Network

Chairs: *Ingrid Sivesind Mehlum, Norway*

Michelle Turner, Spain

Network on the Coordination and Harmonisation of European Occupational Cohorts (OMEGA-NET), *Ingrid Sivesind Mehlum, Norway*

OMEGA-NET Inventory of Occupational Cohorts, *Manolis Kogevinas, Spain*

Precarious employment - a theoretical framework for research in occupational health, *Theo Bodin, Sweden*













COVID-19 and the Workplace, *Lode Godderis, Belgium*

What is needed for federated learning in occupational cohorts?, *Roel Vermeulen, Netherlands*

Occupational Cohort Studies in North America: Opportunities for Collaboration with OMEGA-NET partners, *Kaitlin Kelly Reif, United States*



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 Lightning Talks	 Symposia	 Break

11:30 - 13:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 24

Towards 'Pesticidovigilance': Do We Have the Tools to Monitor Pesticide Exposures Related Health Outcomes in Vulnerable Populations?

Chairs: *Roel Vermeulen, Netherlands*
Beate Ritz, United States

Pesticide Exposure, Systems Biology, and Parkinson's disease, *Kimberly Paul, United States*
Environmental pesticide concentrations in air and pregnant women's urinary pesticide metabolites in the Infants' Environmental Health Study (ISA), *Berna Van Wendel De Jooede, Costa Rica*
Pesticide monitoring of vulnerable populations in Uganda and South Africa, *Samuel Fuhrmann, Switzerland*
From modeling, measuring, to exposomics - a Roadmap to pesticidovigilance, *Roel Vermeulen, Netherlands*
Linking Pesticide Use Records and Birth Certificates in Arizona, *Melissa Furlong, United States*

11:30 - 13:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 27

Links between Air Pollution and Children's and Reproductive Outcomes

Chairs: *Marie Pedersen, Denmark*
Carmen Messerlian, United States

Association between ambient air pollution prior to initiation of in vitro fertilization and fertilization rates, pregnancy, and live birth, *Sabah M. Quraishi, United States*
Association between prenatal exposures to ambient air pollutants and preterm birth in the Atlanta African American Mother-Child Cohort, *Donghai Liang, United States*
Ambient air pollution exposure during pregnancy and cardio-metabolic markers in cord blood: The Healthy Start study, *Chloe Friedman, United States*
Combined Effects of Air pollutants on Gestational Diabetes Mellitus: a Prospective Cohort Study, *Wenyu Liu, China*
Prenatal air pollution exposure and adverse birth outcomes: windows of susceptibility and socio-economic inequalities, *Michiel Arjen Van Den Dries, Netherlands*
Exposure to PM_{2.5} during pregnancy and ultrasound parameters of fetal growth in Massachusetts, USA, *Michael Leung, United States*

11:30 - 13:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 28

Environmental Metabolomics

Chairs: *Donghai Liang, United States*
Zhanghua Chen, United States

Untargeted Metabolomics Reveals that Multiple Reproductive Toxicants are Present in the Endometrium, *Emily L Silva, United States*
High-resolution metabolomics of exposure to tobacco smoke during pregnancy and adverse birth outcomes in the Atlanta African American Maternal-Child cohort, *Youran Tan, United States*
Using non-targeted screening and silicone wristbands to investigate geographic differences in pollution exposures among maternal and cord sera, *Dana E Goin, United States*
Gestational Perfluorooctanoate Exposure and Childhood Metabolome at Age 8 Years, *Nan Li, United States*
Trace elements and plasma metabolomics in a general population from Spain: The Horteiga Study, *Marta Gálvez Fernández, Spain*
Metabolomics and gene expression profiles in association with air pollution exposure mixtures among young adults with asthma, *Jiawen Liao, United States*

13:00 - 14:00 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

13:00 - 13:30 Display of posters at the E-poster gallery. Questions & answers over the posters
13:30 - 14:00 Poster Viewing Group discussions in the public chat channels in Networking Lounge

Poster Viewing Groups (PVG): *PVG 47 / PVG 48 / PVG 49 / PVG 50*

14:00 - 15:00 / STATUE OF LIBERTY HALL (HALL 1)

PANEL DISCUSSION 9

The Next Climate Horizon: Training Health Professionals Globally for 1.5 Degrees and Beyond

Chair: *Cecilia Sorensen, United States*

Panelists: *John Balbus, United States*
Jay Lemery, United States
Brittany Shea, United States
Michael Schmeltz, United States



SCIENTIFIC PROGRAM Thursday, August 26, 2021

14:00 - 15:00 / BROOKLYN BRIDGE HALL (HALL 2)

LIGHTNING TALKS 10

Biomarkers in Human Studies

Chairs: Allison Kupscio, United States

Anne Bozack, United States

Prenatal metal exposure, cord blood DNA methylation and persistence in childhood: epigenome-wide association study of twelve metals, *Anne K. Bozack, United States*

Epigenome-wide DNA Methylation in Leukocyte and Toenail Metals: the Normative Aging Study, *Cuicui Wang, United States*

Effect of metal co-exposures on DNA methylation age in Bangladeshi children, *Maria Argos, United States*

Short-term Exposure to PM2.5 and Epigenetic Aging: A Quasi-Experimental Study, *Xu Gao, China*

Exposure to Air Pollutants, Circulating miRNAs, and Cardiometabolic Health among Young Adults, *William B Patterson, United States*













An environment wide association study on body mass index in adolescents using 2003-2004 and 2013-2014 NHANES data, *Nadine Haddad, Cyprus*

Arsenic concentrations in the placenta are associated with dysregulation of placental microRNA expression, *Jesse M. Tehrani, United States*

The Oxidative Potential of Fine Particulate Matter and Metabolic Perturbations in Plasma and Saliva, *Ziyin Tang, United States*

Effects of prenatal exposure to phthalates and Hexamoll® DINCH derived from urinary untargeted metabolomics analysis, *Nafsika Papaioannou, Greece*

Metabolic signatures of youth exposure to per- and polyfluoroalkyl substances, *Jesse A. Goodrich, United States*

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14:00 - 15:00 / TIMES SQUARE HALL (HALL 3)

LIGHTNING TALKS 11

Exposure Assessment for Environmental Epidemiology

Chairs: Jesse Berman, United States

Apolline Saucy, Spain

Uncertainty Characterization in PM2.5 Estimates Across the Contiguous US, *Sebastian Thonet Rowland, United States*

Using a mobile monitoring campaign to characterize average exposures to ultrafine particulate matter and black carbon for a Seattle-based cohort, *Magali N Blanco, United States*

Design and evaluation of mobile monitoring campaigns for exposure assessment in epidemiologic cohorts, *Lianne Sheppard, United States*

Real-time characterization of personalized air pollution exposure in pregnant women participating in a birth cohort study, *Akhgar Ghassabian, United States*

Integrating monitor wearing to estimate household air pollution exposure parameters in the Ghana Randomized Air Pollution and Health Study (GRAPHS), *Carlos F Gould, United States*

50 chemical exposures of concern discovered using wearable passive samplers and gas chromatography high-resolution mass spectrometry in South African children, *Krystal J Godri Pollitt, United States*













Contributions of nearby agricultural insecticide applications to indoor residential exposures, *Jessica M. Madrigal, United States*

Exposure to Unconventional Oil and Gas Development and All-cause Mortality in Medicare Beneficiaries, *Longxiang Li, United States*

Openly accessible low-cost measurements in PM2.5 exposure modeling: guidance for monitor deployment, *Jianzhao Bi, United States*



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13:30 - 15:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 29

Environmental Policy-relevant Research

Chairs: *Martin Tondel, Sweden*

Melissa Fiffer, United States

Economic cost of local attributable burden disease to PM_{2.5} ambient air pollution in Medellín, Colombia, 2010-2016, *Juan Gabriel Piñeros Jiménez, Colombia*

Health Burden Attributable to Increased PM_{2.5} Exposures and Potential Exposure Reductions during the 2020

Washington State Wildfire Smoke Episode, *Yisi Liu, United States*

Health Effects of Hydrogen Sulfide Exposures: A Review of the Evidence Pertaining to Low Level Exposures, *Amelia Grant Alfieri, United States*

GFR decline and prior dysuria among Nicaraguan sugarcane workers, *Zsuzsanna Jeney, United States*

The global distribution of pesticide poisoning: Implications for vulnerable populations, environmental health and equality in a shifting global policy climate, *Emily Marquez, United States*

Policy implications of research on "Environmental Policy-relevant Research". Discussion by Adetoun Mustapha, Nigeria

14:00 - 15:00 / GRAND CENTRAL HALL (HALL 5)

E-POSTER DISCUSSION 16

Extreme Weather Events (Wildfires, Tropical Cyclones, Droughts, etc) - Exposure Assessment & Related Adverse Health Outcomes

Chairs: *Brooke Anderson, United States*

Aina Roca Barcelo, United Kingdom

Applications of Synthetic Tracks for North Atlantic Tropical Cyclone Health Impact Assessment, *Daniel Dean, United States*

Excess mortality in the Colorado Front Range during the COVID-19 pandemic and a concurrent intense wildfire season, *Sheena E. Martenies, United States*

Effect of Wildland Fire Smoke Exposure on Acute Cardiovascular Responses among Wildland Firefighters

Working at Prescribed Burns, *Chieh-Ming Wu, United States*

Chronic obstructive pulmonary disease (COPD) attributable to ozone in Germany: Burden of disease estimates for the years 2007-2016, *Susanne Breitner, Germany*

Sixteen years analysis of PM_{2.5} and mortality in Kuwait, *Barrak Alahmad, Kuwait*

Predicting high-resolution spatial and temporal variations in summer air temperatures and its effect on asthma and myocardial-infarctions in Montreal, Canada, *Tuviee Onokome Okome, Canada*

15:00 - 15:30 / BREAK

15:30 - 17:00 / STATUE OF LIBERTY HALL (HALL 1)

SYMPOSIUM 25

The European Human Exposome Network

Chairs: *Roel Vermeulen, Netherlands*

Joakim Dillner, Sweden

Decoding our environment: The European Human Exposome Network, *Roel Vermeulen, Netherlands*

FAIRification of data: Great but how?, *Morris Swertz, Netherlands*

Ethics by Design in Exposome Research, *Caspar Willem Safarlou, Netherlands & Evert-Ben van Veen, Netherlands*

Big data does not equal big knowledge. A need for causal insights, *Sylvain Sebert, Finland*

15:30 - 17:00 / BROOKLYN BRIDGE HALL (HALL 2)

TRADITIONAL ORAL SESSION 30

Temperature and Health

Chairs: *Ana Maria Vicedo-Cabrera, Switzerland*

Robbie Parks, United States

Ambient warming and human sleep duration and timing: a worldwide case-crossover study using big data from wearable devices, *Kelton Minor, United States*

Urbanization and Heat-mortality risk in Korea and Japan, *Whanhee Lee, United States*

Vulnerability factors driving differential patterns in the heat-related mortality between rural and urban areas in Switzerland, *Evan De Schrijver, Switzerland*













Effects of long-term average temperature and temperature variability on cardiovascular disease hospitalizations in the US Medicare population, *Jochem O Klompmaker, United States*

Adapting to the heat? Extreme temperature and birth outcomes over time in Spain, 1985-2016, *Risto Conte Keivabu, Italy*

Changing heat impacts on mortality and implications for mitigation planning in New York City, *Kazuhiko Ito, United States*



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15:30 - 17:00 / TIMES SQUARE HALL (HALL 3)

SYMPOSIUM 26

Diet as Complementary Opportunity to Mitigate Effects of Environmental Pollutants on Health Outcomes

Chairs: *Nasser Laouali, United States*
Youssef Oulhote, United States

Maternal diet as a modifier of environmental risk factors for child neurodevelopmental outcomes: Existing evidence and future directions, *Kristen Lyall, United States*
Associations between blood lead and urinary cadmium levels and mortality, and effect modification by dietary inflammatory index, *Nasser Laouali, France*
Antioxidant Intake and the Relationship between Air Pollution and Birth Defects: A comparison of approaches for effect modification, *Jeanette A Stingone, United States*
Micronutrient intake is associated with reductions in chemical exposure effects on blood pressure of electronic waste recyclers at Agbogbloshie, Ghana, *Sylvia Akpene Takyi, Ghana*
Ambient air pollution, psychological stress, and early childhood respiratory outcomes: Modifying effects of prenatal maternal diet, sex, and race/ethnicity, *Rosalind J Wright, United States*
Opportunities and challenges when modelling heterogeneous effects with high-dimensional data, *Tarik Benmarhnia, United States*

15:30 - 17:00 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 31

Exposure to Metals and Adverse Health Outcomes

Chairs: *Tiffany Sanchez, United States*
Meghan Tipre, United States

Association between prenatal metals exposure and childhood lung function, *Cecilia Sara Alcalá, United States*
Metal co-exposures and telomere length in Bangladeshi children, *Shohreh F Farzan, United States*
Prenatal Exposure to Toxic Metal Mixtures and Risk of Bacterial Sepsis in Extremely Low Gestational Age Newborns, *Catherine M Bulka, United States*
Urinary Metal Mixtures and Incident Metabolic Syndrome in Midlife Women: the Study of Women's Health Across the Nation (SWAN), *Xin Wang, United States*
Environmental metals and metal mixtures and renal disease in an adult population from Spain: the Aragon Workers Health Study, *Maria Grau Perez, Spain*
Cadmium and lead exposure and risk of dementia in a Swedish population-based cohort: The Malmö Diet and Cancer Study, *Florencia Harari, Sweden*

15:30 - 17:00 / GRAND CENTRAL HALL (HALL 5)

TRADITIONAL ORAL SESSION 32

Infections (including COVID-19) and the Environment

Chairs: *Manolis Kogevinas, Spain*
Olayinka Osuolale, Nigeria

Applying a multiple exposures framework to explore complex spatial inequalities of Covid-19-related excess mortality in Lombardy region of Northern Italy, *Eric S Coker, United States*
Ambient air pollution and risk of SARS-CoV-2 infection and of COVID-19 disease in a cohort study in Catalonia (COVICAT Cohort), *Manolis Kogevinas, Spain*
Impact of the COVID-19 lockdown policies on reducing air pollution levels and related deaths in Europe, *Rochelle Schneider, Italy*
Longer- and Shorter-term Air Pollution Exposure Associated with COVID-19 Severity and Mortality: A Large Cohort Study in Southern California, *Zhanghua Chen, United States*
Associations between SARS-CoV-2 concentration in wastewater and sludge and measures of COVID-19 cases in three communities, *Elyssa Anneser, United States*
Impact of COVID-19 on household energy use in Ghana, *Theresa Afia Serwaa Tawiah, Ghana*

17:00 - 17:30 / BREAK

17:30 - 18:30 / STATUE OF LIBERTY HALL (HALL 1)

E-POSTER DISCUSSION 17













Methods to Assess Exposure to Environmental Mixtures

Chairs: *Tom Webster, United States*
Anke Huels, United States

Principal component pursuit for exposure pattern recognition: an application to persistent organic pollutants and leukocyte telomere length, *Lawrence Gardner Chillrud, United States*
Machine Learning Approaches for Environmental Mixtures Studies with Time-to-Event Outcomes and their Application to the Strong Heart Study, *Melanie Mayer, United States*
Hormone concentrations mediate the associations between exposure to phthalate mixtures and preterm birth, *Amber L Cathey, United States*
Environmental Mixture Methods: Recommendations to Promote Robust Results in the Presence of Random Sampling, *Elizabeth A Gibson, United States*
Having your cake (mix) and eating it too: Independent, interaction, and group effects of mixtures using Bayesian Hierarchical Regression Modelling, *Erika Garcia, United States*
Mixture effects of prenatal exposure to per- and polyfluoroalkyl substances and polybrominated diphenyl ethers on maternal and newborn telomere length, *Stephanie Eick, United States*



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17:30 - 18:30 / BROOKLYN BRIDGE HALL (HALL 2)

E-POSTER DISCUSSION 18

Climate and Temperature and Health

Chairs: *Allan Just, United States*

Josiah Kephart, United States

Ambient temperature from satellite-hybrid models and preterm birth: A time-stratified case-crossover analysis of 70,000+ preterm births in Central Mexico, *Daniel Carrión, United States*

Modeling complex effects of exposure to particulate matter and extreme heat during pregnancy on congenital heart defects, *Will Simmons, United States*

Short-term effects of temperature on cardiovascular and respiratory mortality and its modification by air pollution in German cities, *Masna Rai, Germany*

Long-term Exposure to Air Pollution and Temperature and Hospital Admissions with Cardiovascular Disease in the United States, *Mahdieh Danesh Yazdi, United States*

Ambient Heat and Risks of Emergency Department Visits among Adults in the United States, *Shengzhi Sun, United States*

Associations between PM2.5 and term low birth weight in a North Carolina cohort and effect modification by extreme heat events, *Thomas Luben, United States*

17:30 - 18:30 / EMPIRE STATE BUILDING HALL (HALL 4)

SNRN 3: MEET THE EDITORS SESSION

Chairs: *Agatha Ibekpobaoku, Nigeria*

Yanelli Nunez, United States

Editors of *Environmental Health Perspectives*: *Joel D Kaufman, United States*

Epidemiology: *Stephanie London, United States*

18:30 - 19:00 / BREAK

19:00 - 20:30 / STATUE OF LIBERTY HALL (HALL 1)

TRADITIONAL ORAL SESSION 33

Environmental Health Disparities

Chairs: *Rachel Morello-Frosch, United States*

Kelvin Fong, United States

Modification by Multiple Social Stressors in Air Pollution-CVD Associations, *Jane E. Clougherty, United States*

Characterizing the spatial variability and vulnerability of heatwaves on ambulance callouts in Adelaide, *Blesson Mathew Varghese, Australia*

Immigrant Disparities in Estimated Effects of Fine Particulate Matter on Birth Weight, *Kelvin C Fong, United States*

The effects of historical residential redlining on temporal trends of air pollution levels measured near New York City schools, *Stephanie Lovinsky Desir, United States*

Prenatal per- and polyfluoroalkyl substance (PFAS) exposure, metabolomic perturbation, and lower birth weight in African American women: a meet-in-the-middle approach, *Che Jung Chang, United States*

Residential segregation, air temperature, and circulatory mortality: Exposure model choice matters for disparities analyses, *Daniel Carrión, United States*

19:00 - 20:30 / BROOKLYN BRIDGE HALL (HALL 2)

SYMPOSIUM 27

Environmental Health, Research and Civil Society – Discussing health promotion and environmental equity in the countryside and in cities in Latin America

Chairs: *Rogerio Araujo Christensen, Brazil*

Telma De Cassia Dos Santos Nery, Brazil

The agrotoxic theme in institutional documents of movement for the fight for agrarian reform, *Luiz Do Nascimento Carvalho, Brazil*

Science allied with Society and Public Policies, *Monica Valdyrce Lopes Ferreira, Brazil*

Overview of the Impacts of Pesticides on Human Health in Municipalities with high use and consumption in SPst - Brazil, *Paulo Junior Paz De Lima, Brazil*













Civil Society activity model together with researchers - Popular Forum of Nature, *Glauca Moraes, Brazil*

Fighting for human rights to water in times of sanitary crisis: social pricing for affordable water in Brazil, *Alexandre Da Silva Faustino, Australia*

Epidemiological Research in Environmental Health in Latin America - How to consider inequalities?, *Sandra Cortés, Chile*



SCIENTIFIC PROGRAM Thursday, August 26, 2021

 E-Poster Discussions	 Panel Discussions	 Traditional Oral Sessions
 ISEE Society Sessions	 Pecha Kucha	 Replay Sessions of Daily Highlights
 Keynote Sessions	 SNRN & Networking Sessions	 E-Poster Viewing Slots
 Lightning Talks	 Symposia	 Break

19:00 - 20:30 / EMPIRE STATE BUILDING HALL (HALL 4)

TRADITIONAL ORAL SESSION 34

Machine Learning and Data Science to Enhance Environmental Health Research

Chairs: *Jeanette Stingone, United States*

Honghyok Kim, United States

The intersection of climate-related health outcomes and urban environmental characteristics using spatiotemporal data science, *Charlene C Nielsen, Canada*
Predicting spatiotemporally-resolved air temperature over Sweden from satellite data using an ensemble model, *Zhihao Jin, United States*

Predicting residential exposure to allergens in an electronic health record cohort of children with asthma in Massachusetts, USA, *Matthew Bozigar, United States*

Use of a LASSO approach to Identify ambient volatile organic compounds associated with emergency admissions for lower respiratory tract infection, *Chen Chen, China*

Exposure to ambient air pollution and fetal cerebellar transverse diameter: a longitudinal study, *Deniz Cataltepe, United States*

Ethical implications of research on "Machine learning and data science to enhance environmental health research". Discussion by Lori Hoepner, United States

19:00 - 20:30 / GRAND CENTRAL HALL (HALL 5)

SYMPOSIUM 28

Protecting Workers in the Face of Climate Change

Chairs: *Jaime Butler Dawson, United States*

Katherine James, United States

Improving Kidney Health Among Workers in Guatemala, *Jaime Butler Dawson, United States*

Worker protection at the intersection of the COVID-19 pandemic and climate change: lessons learned through industry partnership, *Lyndsay Krisher, United States*

Cooling Interventions Among Agricultural Workers: A Pilot Study, *Roxana C Chicas, United States*

Wildfire-related PM_{2.5} and Intensive Care Unit Admissions and Bed Utilization in the United States, 2006-2015, *James L Crooks, United States*

20:30 - 21:30 / E-POSTER GALLERY & NETWORKING LOUNGE

NETWORKING & E-POSTER VIEWING SLOT

20:30 – 21:00 *Display of posters at the E-poster gallery, Questions & answers over the posters*

21:00 – 21:30 *Poster Viewing Group discussions in the public chat channels in Networking Lounge*

Poster Viewing Groups (PVG): PVG 51 / PVG 52 / PVG 53 / PVG 54 / PVG 55 / PVG 56

21:30 - 23:00 / STATUE OF LIBERTY HALL (HALL 1)

REPLAY OF SESSION: SYMPOSIUM 21

Inferential Challenges and Methodological Solutions in Air Pollution Epidemiology Studies

Chair: *Tarik Benmarhnia, United States*

Estimating the effect of long-term exposure to PM_{2.5} on mortality in Canadian Community Health Survey Cohort using parametric g-computation, *Chen Chen, United States*

A discussion of competing events in epidemiologic studies of air pollution, *Sindana Hango, United States*

Causal Inference and Machine Learning approaches to discover de novo sub-populations with heterogeneous air pollution health effects, *Francesca Dominici, United States*

Changes in residential exposure to ambient fine particulate matter due to relocation and long-term survival in Canada: a quasi-experimental study, *Tarik Benmarhnia, United States*

21:30 - 23:00 / BROOKLYN BRIDGE HALL (HALL 2)

REPLAY OF SESSION: TRADITIONAL ORAL SESSION 19

Exposure Assessment: Biomarkers

Chairs: *Douglas Walker, United States*

Haojian Wu, United States

Central Nervous System (CNS)-Derived Extracellular Vesicles (EVs) as Novel Biomarkers for Environmental Exposure and Disease Progression in ALS, *Nicole Comfort, United States*

Determinants for serum half-lives for linear and branched perfluoroalkyl substances after long-term, high exposure — a study in Ronneby, Sweden, *Axel Andersson, Sweden*

Widespread Exposure to Emerging and Previously Unmeasured Chemicals in Commerce in Pregnant women Across the US, *Tracey Woodruff, United States*

Combination of multi-residue methods for organic pollutant(s) and metal(s) analysis in hair - Towards a comprehensive assessment of population exposome, *Alba Iglesias González, Luxembourg*

Assessing the Effects of Metal Mixtures in Urine and Blood on Kidney Function, *Maria D. Politis, United States*