



32nd Annual Conference of the International Society for Environmental Epidemiology

Advancing Environmental Health in a Changing World



SCIENTIFIC PROGRAM - Monday, 24 August 2020

Time zone: EDT (Eastern Day Time) / GMT-4

Pre-Recorded Sessions
 Live Sessions

	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4	PARALLEL 5
07:00 - 08:00	<p>07:30 - 08:00 ISEE 2020 VIRTUAL CONFERENCE OPENING</p> <p><i>Mark J Nieuwenhuijsen, Spain</i> <i>Beate Ritz, US</i> <i>Marc Weisskopf, US</i></p>	E-POSTER VIEWING SLOT			
08:00 - 09:30	<p>KEYNOTE SESSION 1</p> <p><i>Michelle Bachelet Jeria, Chile:</i> Advancing Environmental Health in a Changing World</p> <p><i>Ana V. Diez Roux, US:</i> Urban Living and Health Equity: Opportunities for Environmental Health Research</p> <p><i>Soledad García Muñoz, US:</i> Human Rights and Environment</p>	<p>SYMPOSIUM 1 Translation of Environmental Epidemiology into Public Health Action: An International Perspective <i>Chairs: Fuyuen Yip, US & Erik Svendsen, US</i></p> <p>Translation of Environmental Epidemiology into Public Health Action: A U.S. Perspective, <i>Fuyuen Yip, US</i></p> <p>Translation of Environmental Epidemiology into Public Health Action: An International Perspective Titled the Perspective of the Pan American Health Organization for the Region of the Americas, <i>Marcelo Korc, US</i></p> <p>Establishing and Extending EPHT Capacity in England: Governance and Operational Aspects, <i>Giovanni Leonardi, UK</i></p> <p>Translation of Scientific Research into Public Health Action: In the Case of National Institute of Public Health, Japan, <i>Ichiro Yamaguchi, Japan</i></p>	<p>ORAL SESSION 1 Recent Issues on Environmental Risk Factors and Health in Asia <i>Chairs: Eunhee Ha, South Korea & Chu-Chih Chen, Taiwan</i></p> <p>Policy Options for India to Minimize Air Pollution Exposure and Its Health Burden, <i>Sagnik Dey, India</i></p> <p>Impact of the Exclusive Median Bus Lane System on Air Pollution Concentrations in Seoul, Korea, <i>Sun-Young Kim, Korea</i></p> <p>Particulate Air Pollution and Risk of ALRI Hospital Admission among Young Children in Ho Chi Minh City, <i>Thi Mai Ly Luong, Vietnam</i></p> <p>Assessment of Multiple Air Pollutant Exposures Using a Mobile Monitoring Approach: A Comparison of Spatial Modeling with Multiple Regression Algorithms, <i>Jia Xu, China</i></p> <p>Assessing the Meteorological Triggers of Childhood Asthma: A Season-Stratified Time-Series Analysis, <i>Shilu Tong, China</i></p>	<p>General Meeting of ISEE AWP Chapter</p> <p><i>Chang-Chuan Chan, Taiwan</i></p> <p><i>Shu-Li Julie Wang, Taiwan</i></p> <p><i>Atsuko Araki, Japan</i></p>	<p>08:00 - 09:00 EMS 1 Chronic Kidney Disease of Uncertain Etiology: A Summary of Current Knowledge and Recommendations Relevant for Env.Epi. <i>Chair: Jennifer Crowe, Costa Rica</i></p> <p><i>Jennifer Crowe, Costa Rica</i></p> <p><i>Vidhya Venogupal, India</i></p> <p><i>Bonnie Joubert, US</i></p> <p><i>Madeleine Scammell, US</i></p> <p><i>Agnes Soares, US</i></p> <p><i>Susan Mendley, US</i></p> <p><i>Jill Lebov, US</i></p> <p><i>Andrés Cardenas, US</i></p>
09:30 - 10:00	BREAK				

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10:00 - 11:30	<p>ORAL SESSION 2 New Geostatistical Models for Large Scale Air Pollution Exposure Chairs: <i>Itai Kloog, US & Massimo Stafoggia, Italy</i></p> <p>Modelling Daily PM10 Concentrations at High Spatio-Temporal Resolution Across South Africa, <i>Oluwaseyi Arowosegbe, Switzerland</i></p> <p>The Satellite Data Revolution: How New Satellite Instruments Can Provide Better Estimates of NOx Pollution, <i>Daniel Goldberg, US</i></p> <p>Multi-Stage Satellite-Based Machine Learning Approach to Reconstruct PM2.5 Concentrations Across Great Britain, <i>Rochelle Schneider dos Santos, UK</i></p>	<p>ORAL SESSION 3 Air Pollution and Respiratory Health in Children and Patients Chairs: <i>Nino Kuenzli, Switzerland & Toyib Olan, Canada</i></p> <p>Variation in Clinical Trial Results for Asthma by Environmental and Socioeconomic Exposures, <i>Jane Clougherty, US</i></p> <p>Investigating the Associations between Exposure to Air Pollutants and Respiratory Outcomes in COPD Patients: the COPE Study, <i>Dimitris Evangelopoulos, UK</i></p> <p>High Traffic Pollution Predicts Rapid Decline in Lung Function among Children with Cystic Fibrosis, <i>Emrah Gecili, US</i></p> <p>Air Pollution and the Development of Asthma from Birth until Young Adulthood, <i>Ulrike Gehring, Netherlands</i></p> <p>Health Effects of Short-Term Exposure to Ultrafine Particles around Amsterdam Schiphol Airport, <i>Nicole Janssen, Netherlands</i></p> <p>Acute Effects of Air Pollution on Hospital Admissions for Asthma COPD and Bronchiectasis in Ahvaz Iran, <i>Narges Khanjani, Iran</i></p>	<p>ORAL SESSION 4 Exposure and Health Effects of Environmental Noise-A Global View Chairs: <i>Tamara Schikowski, Germany & Cathryn Tonne, Spain</i></p> <p>Road Traffic Noise, Mortality and Incidence of Cardio-Cerebrovascular Diseases in Rome, <i>Carla Ancona, Italy</i></p> <p>Long-Term Exposure to Road Traffic Noise and Cause-Specific Mortality: A Danish Nurse Cohort Study, <i>Zorana Andersen, Denmark</i></p> <p>Novel Approaches to Characterize Environmental Noise Pollution and Its Sources in Rapidly Developing Cities: Application to the Sub-Saharan African City of Accra, Ghana, <i>Sierra Clark, UK</i></p> <p>Aircraft Noise Exposure and Saliva Cortisol in the DEBATS Longitudinal Study, <i>Lise Giorgis-Allemand, France</i></p> <p>Environmental Noise Exposure and Sleeping Troubles: A General Population-Based Study in Montreal and Halifax, <i>Ying Liu, Canada</i></p> <p>Long-Term Exposure to Aircraft Noise and Risk of Incident Cardiovascular Disease in the Women's Health Initiative, <i>Daniel Nguyen, US</i></p>	<p>SYMPOSIUM 3 Glyphosate: Regulation, Toxicity, Exposure and Controversy Chairs: <i>Cynthia Curl, US & Michael Antoniou, UK</i></p> <p>Why EPA and IARC Classifications of Glyphosate Oncogenicity Differ, <i>Charles Benbrook, US</i></p> <p>Urinary Biomonitoring to Assess Human Exposure to Glyphosate, <i>Cynthia Curl, US</i></p> <p>Can Glyphosate and Commercial Glyphosate-Based Herbicide Formulations Alter Human Microbiomes?, <i>Michael Antoniou, UK</i></p> <p>Underneath Glyphosate Label: Possible Health Hazards from the Exposure to Co-Formulants, <i>Robin Mesnage, UK</i></p> <p>Epidemiologic Evidence of Glyphosate's Carcinogenic Potential, <i>Lianne Sheppard, US</i></p>	<p>10:00 - 11:00 EMS 2 The Importance of NOT being "Ernest" in Environmental Epidemiology Chairs: <i>John Nuckols, US & Rena Jones, US</i></p> <p>Tony Fletcher, UK</p> <p>John Nuckols, US</p>
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12:00 - 13:30	<p>ORAL SESSION 5 On the Built and Green Environment <i>Chairs: Mark Nieuwenhuijsen, Spain & Hector Olvera Alvarez, US</i></p> <p>Traffic-Related Air Pollution, Road Noise, Urban Green Space, and Incidence of Cardiovascular Events: Findings from the Ontario Population Health and Environment Cohort (ONPHEC), Li Bai, Canada</p> <p>Effects of Combined Exposure to Surrounding Green, Air Pollution and Traffic Noise with Non-Accidental and Cause-Specific Mortality in the Dutch National Cohort, Jochem Klompmaker, Netherlands</p> <p>Greenspace Exposure and Cancer Incidence in the Gazel Cohort, Emeline Lequy, Canada</p> <p>Neighborhood Aesthetics as a Correlate of Physical and Mental Health, Jill Litt, US</p> <p>Greenspace, Air Pollution, Neighborhood Factors and Preeclampsia in California, Kari Weber, US</p> <p>Testing the Savanna Hypothesis: Effect of Desert Landscape on Physiological Stress Recovery, Jie Yin, US</p>	<p>ORAL SESSION 6 Early Life Exposures and Cancer Across the Life Course <i>Chairs: Laura Beane-Freeman, US & Julia Heck, US</i></p> <p>Is Anogenital Distance Associated with Prostate Cancer Risk, Gemma Castaño-Vinyals, Spain</p> <p>Serum Polychlorinated Biphenyl (PCB) Levels and Risk of Testicular Germ Cell Tumors: A Population-Based Case-Control Study in Connecticut and Massachusetts, Zhiyuan Cheng, US</p> <p>Maternal Occupational Benzo(a) pyrene Exposure and Risk of Cancer in Children, Julia Heck, US</p> <p>Cluster Detection of Cancer Incidence: Analyzing Childhood Residential Location Linked to Later Life Cancer Records, Claire Leiser, US</p> <p>Prenatal Exposure to Polybrominated Diphenyl Ethers (PBDEs) Flame Retardants and Breast Tissue Composition among Adolescents Girls, Sabine Oskar, US</p> <p>Untargeted Metabolomics Profiles of Newborn Dried Blood Spots and Pediatric Acute Myeloid Leukemia: A Pilot Study, Lauren Petrick, US</p>	<p>ORAL SESSION 7 Environmental Exposures in Children and Adolescents and Brain Health <i>Chairs: Raanan Raz, Israel & Zeyan Liew, US</i></p> <p>Association of Prenatal Acetaminophen Measured in Meconium with Attention-Deficit Hyperactivity Disorder, Brennan Baker, US</p> <p>Prenatal Exposure to Perfluoroalkyl Substances and Dysmorphic Facial Features at Age 5, Jiajun Luo, US</p> <p>Environmental Risk Score of Subclinical Psychopathology Risk in Children, Léa Maitre, Spain</p> <p>Prenatal Exposure to Mixtures of Environmental Chemicals and Adolescent Internalizing Behaviors in the New Bedford Cohort, Lisa Rokoff, US</p> <p>Prenatal Exposure to Organophosphate Pesticides and Longitudinally Assessed Executive Function and Attention in Childhood and Early Adolescence, Sharon Sagiv, US</p> <p>Paternal Arsenic Exposure Increases Risk of Myelomeningocele among Offspring in a Highly-Exposed Population, Gwen Tindula, US</p>	<p>ORAL SESSION 8 High Resolution Air Pollution Exposure Assessment: New Developments for Measurement, Modeling & Health Studies <i>Chairs: Joshua Apte, US & Ellison Carter, US</i></p> <p>Mobile-Monitoring of Black Carbon and Ultrafine Particles in Bangalore, India, Meenakshi Kushwaha, India</p> <p>Land-Use Regression Variable Selection with Spatiotemporal Dependent Errors and Large Sample Size: A National and Daily Ground-Level NO₂ Model, Kyle Messier, US</p> <p>Using Google Street View Imagery in Land Use Regression to Predict Street Level Particulate Air Pollution, Meng Qi, US</p> <p>Reducing Exposure Measurement Error Using Disease Risk Scores, David Richardson, US</p> <p>Assessing the Distribution of Air Pollution Health Risks within Cities: A Neighborhood-Scale Analysis Leveraging High Resolution Datasets in the Bay Area, California, Veronica Southerland, US</p>	<p>SYMPOSIUM 4 Novel Methods for Studying the Epidemiology of Exposure to Mixtures: NIEHS' 2019 PRIME Program <i>Chairs: Marianthi-Anna Kioumourtzoglou, US & Bonnie Joubert, US</i></p> <p>Non-Linear Effects of Environmental and Social Exposures and Interactions on Early Childhood Academic Achievement, Mercedes A. Bravo, US</p> <p>Consideration of Regulatory Guidelines in the Analysis of Mixtures of Environmental Chemicals and Nutrients, Chris Gennings, US</p> <p>Development and Testing of Response Surface Methods for Investigating the Epidemiology of Exposures to Mixtures, Thomas F Webster, US</p> <p>Bayesian Joint Modeling of Chemical Structure and Dose Response Curves, Kelly R Moran, US</p> <p>Selecting Key Agents from Environmental Mixtures: A Method for High-Dimensional Feature Selection in Presence of Strong Collinearity, Sanjib Basu, US</p>
13:30 - 15:00	<p>13:30 - 14:30 E-POSTER DISCUSSION 1 PFAS Growth, Development and Diabetes <i>Chair: Tony Fletcher, UK</i></p>	<p>13:30 - 15:00 E-POSTER VIEWING</p>			



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15:00 - 16:30	<p>SYMPOSIUM 5 Quasi-experimental Designs to Study Effects of Extreme Weather Events on Population Health in a Changing Climate <i>Chairs: Tarik Benmarhnia, US & Joan Casey, US</i></p> <p>Applying Synthetic Control Methods for Multiple Treatments to Study the Health Impacts of Extreme Weather Events, Tarik Benmarhnia, US & Paige Sheridan, US</p> <p>Exploring the Association between Drought and Health: Examples with Mortality and Psychosocial Stress in Farmers, Jesse Berman, US</p> <p>Methods for Making Causal Inferences from Natural Experiments, Elizabeth Ogburn, US</p> <p>The 2019 Getty Fire and Healthcare Visits among Vulnerable Older Adults in Southern California, Joan Casey, US</p>	<p>ORAL SESSION 9 Prenatal Exposure to PFAS, Pregnancy Complications and Birth Outcomes <i>Chairs: Lida Chatzi, US & Scott Maichael Bartell, US</i></p> <p>Association of Perfluoroalkyl Substances with Gestational Hypertension and Preeclampsia in the MIREC Study, Michael Borghese, Canada</p> <p>Associations between Prenatal Maternal Exposure to Per- and Polyfluoroalkyl Substances (PFAS) and Polybrominated Diphenyl Ethers (PBDEs) with Birth Outcomes among Pregnant Women in San Francisco, Elizabeth Hom Thepaksorn, US</p> <p>Association between Prenatal Exposure to PFAS and Fetal Sex Hormones: Are the Short-Chain PFAS Safer? Min Nian, China</p> <p>Endocrine Disrupting Chemical Mixtures Alter Maternal Thyroid Hormones - A Potential Pathway for Altered Fetal Programming? Eva Tanner, US</p> <p>Per- and Polyfluoroalkyl Substances in Drinking Water and Birthweight in the US: A County-level Study, Yachen Zhu, US</p> <p>Ethic Discussion Discussants: Lizbeth Lopez Carrillo, Mexico & Luis Jorge Hernández Flórez, Colombia & Susan M. Pinney, US</p>	<p>ORAL SESSION 10 Health Impacts of Hurricanes in the Atlantic Basin <i>Chairs: Gregg Wellenius, US & Brooke Anderson, US</i></p> <p>Coastal Storms, Hurricanes and Multiple Hospitalization Outcomes in the United States, Robbie Parks, US</p> <p>Hurricane Flooding and Gastrointestinal Illness in North Carolina, Arbor Quist, US</p> <p>Evidence of Association between Flooding During and Following Hurricane Harvey and Reported Illness, Balaji Ramesh, US</p> <p>Tropical Cyclone and Risk of Preterm Birth: A Retrospective Analysis of 20 Million Births across 378 US Counties, Shengzhi Sun, US</p> <p>Impact of Hurricane Maria on Prenatal Environmental Exposures and Mental Health in Puerto Rico, Deborah Watkins, US</p>	<p>SYMPOSIUM 6 From the University Door to the Congress Floor: How We Translate Science into Policy <i>Chairs: Joan Casey, US & Marianthi-Anna Kioumourtoglou, US</i></p> <p>Translating Scientific Findings on Environment and Health for Relevance to Decision Making, Tracey Woodruff, US</p> <p>Making the Most Impactful Science: Incorporating Policy-Relevance into Science throughout the Scientific Process, Michelle Bell, US</p> <p>Translating Science into Policy: the US Congress Perspective, Priyanka Hooghan, US</p> <p>Community-Based Campaigns to Advance from Science to Policy, Peggy Shepard, US</p> <p>Shepherding Science into the Decision-Making Process: Case Studies in Food Production and Public Health, Keeve Nachman, US</p>	
16:30 - 18:30	BREAK				



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18:30 - 20:00	<p>18:30 - 20:00 ORAL SESSION 11 Emerging Environmental Threats in Asia and the Pacific <i>Chairs: Alistair Woodward, New Zealand & Junwei Xu, Canada</i></p> <p>The Effect of Displacement on the Association between Landslides and Mental Wellbeing in Indonesia, Kate Burrows, US</p> <p>Effects of the Sumatran Forest Fires (haze) on Cognitive Function in Indonesian Children, Geoff Morgan, Australia</p> <p>Exposure to Ambient Particulate Matter during Pregnancy: Associations with Birth Weight in Thailand, Will Mueller, UK</p> <p>Intra-Country Climate Variability and Geographical Distribution of Diarrhoea among Children under Five in Bangladesh, Rezanur Rahaman, Australia</p> <p>Dengue in Queensland, Australia, Rokeya Akter, Australia</p> <p>Smoke-Related Health Impacts of an Unprecedented 2019/2020 Forest Fire Season in Victoria, Australia, Martine Dennekamp, Australia</p>	<p>19:00 - 20:00 E-POSTER DISCUSSION 2 Variability of PM2.5, Health Effects as a Function of Particle Source and/or Composition <i>Chair: George Thurston, US</i></p>	<p>19:00 - 20:00 E-POSTER VIEWING</p>		

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07:00 - 08:00	<p>07:30 - 08:00 MEET THE ISEE PRESIDENT - 1 Mark J Nieuwenhuijsen, Spain</p>	<p>07:00 - 08:00 E-POSTER DISCUSSION 3 Environment and COVID-19 Chair: Ariana Zeka, UK</p>	<p>07:00 - 08:00 E-POSTER VIEWING</p>		
08:00 - 09:30	<p>KEYNOTE SESSION 2</p> <p>Nigel French, New Zealand: Epidemiology for One Health: Applying New Tools to Inform the Control of Infectious Diseases at the Interface Between Humans, Animals and the Environment</p> <p>Gabriel Leung, Hong Kong: School Closure for COVID-19 Control.</p> <p>Jeffrey Shaman, United States: Meteorological Determinants of Influenza and SARS-CoV-2 Survival and Transmission</p>	<p>ORAL SESSION 12 Indoor/Built Environment and Health Chairs: Kenichi Azuma, Japan & Charlie Roscoe, US</p> <p>Residential Greenness and Cardiovascular Disease Incidence, Readmission, and Mortality, Hong Chen, Canada</p> <p>Household Air Pollution (HAP) and Esophageal Squamous Cell Carcinoma: Findings from a Case-Control Study in Western Kenya, Iva Cukic, UK</p> <p>Household Air Pollution Exposure and Childhood Blood Pressure: Evidence from GRAPHS, Seyram Kaali, Ghana</p> <p>Living Near Greener Spaces is Associated with Lower Risk of Diabetes-Related Mortality in Brussels, Belgium: a 13-Year Mortality Follow-up Study, Lucia Rodriguez Loureiro, Belgium</p> <p>Ethic Discussion Discussants: Kofi Amegah, Ghana & Jutta Lindert</p>	<p>PECHA KUCHA SESSION 1 Chairs: George Downward, Netherlands & Ulrike Gehring, Netherlands</p> <p>Long-Term Exposure to Air Pollution and Heart Failure: A Systematic Review and Meta-Analyses, Zorana Andersen, Denmark</p> <p>Estimating Exposure to Drinking Water Quality on a National Level - Danish Design Drinking Water Epidemiology, Jörg Schullehner, Denmark</p> <p>Effectiveness of Air Pollution Intervention and Health Impacts in Low and Middle Income Countries-A Scoping Review, Suganthi Jaganathan, India</p> <p>Mother-Level Random Effect in the Association between PM 2.5 and Low Birth Weight: A Population-Based Pregnancy Cohort in Israel, Wiessam Abu Ahmad, Israel</p> <p>Different Effects on Anemia of Short-Term Indoor Air Purifier Intervention in Housewives: KoCHENS-MOM Study, Youngrin Kwag, Korea</p> <p>Concurrence of Heatwaves and Extreme Ozone Episodes and Impact on Health and Well-Being, Kenza Khomsi, Morocco</p> <p>Human Uptake of Phthalates from Indoor Home Dust in the SELMA Study, Anna-Sofia Preece, Sweden</p>	<p>SYMPOSIUM 7 Recent Advances and Future Collaboration in the Birth Cohort Consortium of Asia Chairs: Jun Zhang, China & Reiko Kishi, Japan</p> <p>Association between Per- and Polyfluoroalkyl Substances (PFAS) and Semen Quality in Men of Reproductive Age in China, Kai Luo, China</p> <p>PFAS and BPA Exposures in Utero and Their Alteration of DNA Methylation at Birth: the Hokkaido Study in Collaboration with Taiwan Cohorts, Atsuko Araki, Japan</p> <p>In-Utero and Childhood Chemical Exposure in Birth Cohort Consortium of Asia, Mei Huei Chen, Taiwan</p> <p>The Mediation Role of Insulin-Like Growth Factor 1 in the Relationship between Prenatal PFBS Exposure and Adiposity in Pre-School Girls, Qian Chen, China</p> <p>Prenatal Exposure to Air Pollutants and Childhood Atopic Dermatitis and Allergic Rhinitis by Adoptions of Machine Learning Methods, Shu Li Wang, Taiwan</p>	<p>SYMPOSIUM 12 The State of Air Pollution Health Effects Research in India Chair: Dorairaj Prabhakaran, India & Joel Schwartz, US & Poornima Prabhakaran, India</p> <p>Estimating Quantitative Exposure-Response Relationships for Fine Particulate Matter and Maternal, Child and Adult Respiratory Outcomes: Experience from the Rural-Urban TAPHE Cohort in Tamil Nadu, India, Kalpana Balakrishnan, India</p> <p>Particle Exposures and Health Effects in Peri-Urban South India: Findings from the CHAI Project, Cathryn Tonne, Spain</p> <p>Atmospheric Pollution and Human Health (APHH): Indo-UK Program for Indian Mega City, Gufran Beig, India</p> <p>Air Pollution in Urban Slums: Summary of Research Work in Bengaluru, India, Prafulla Shriyan, India</p> <p>Air Pollution and Implications of Health Research for Policy-Making by National Centre for Disease Control, India, Aakash Shrivastava, India</p> <p>Associations between Air Pollution and Built Environment on Insulin Resistance and HbA1c in the PURSE-HIS Cohort, Kevin James Lane, US</p> <p>CHAIR-Consortium: A Collaboration for Air Pollution Research across India, Petter L S Ljungman, Sweden & Siddhartha Mandal, India</p>

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10:00 - 11:30	<p>ORAL SESSION 13 Microbiome and the Environment <i>Chairs: Merete Åse Eggesbø, Norway & Nina Iszatt, Norway</i></p> <p>The Importance of the Gut Microbiome for Human Health and the Interaction with Toxicants, Merete Åse Eggesbø, Norway</p> <p>Influence of Urban Greenspace on the Early-Life Gut Microbiome, Anneclaire De Roos, US</p> <p>Early-Life Exposure to Toxic and Nutrient Elements in Relation to the Infant Microbiome as a Possible Mediator or Modifier of Autism-Related Social Behaviors, Hannah Laue, US</p> <p>Arsenic-Gut Microbiome Interaction: Effects on Exposed Populations of Bihar, India, Debapriya Mondal, UK</p> <p>The Association between Long-Term Ambient Pesticide Exposure and the Gut Microbiota in California Adults, Keren Zhang, US</p>	<p>SYMPOSIUM 8 Addressing Environmental and Social Determinants of Emerging Slum Health Challenges in Sub-Saharan Africa <i>Chair: Eric Coker, US</i></p> <p>Proliferation of Slums in Sub-Saharan Africa: Environmental Exposures and Human Health Effects, A. Kofi Amegah, Ghana</p> <p>Determinants of Household Air Pollution Exposure Mitigating Factors in Urban Uganda, Eric Coker, US</p> <p>Short-Term Association between Respiratory Disease Admissions and PM10 in Cape Town, South Africa, 2011 - 2016: A Time Series Study, Temitope Christina Adebayo Ojo, Switzerland</p> <p>Addressing Inequality in Health in Sub-Saharan Africa through Robust Measurement of Socio-Economic Status, Adetoun Mustapha, Nigeria</p>	<p>ORAL SESSION 14 Impacts of Environmental Exposures amongst Children and Adolescents on Brain Health <i>Chairs: Leslie London, South Africa & Anna Oudin, Sweden</i></p> <p>Short-term Ambient Fine Particulate Matter and Anxiety Symptoms in Adolescents with Generalized Anxiety Disorder, Cole Brokamp, US</p> <p>Umbilical Cord Metals Concentration and Neurodevelopment in a Birth Cohort - Pipa Project - Rio de Janeiro – Brazil, Nataly Damasceno Figueiredo, Brazil</p> <p>Effect of Air Pollution on the Cognitive Function of Adolescents (ATENC!Ó): An Experimental Study in High Schools in Barcelona, Spain, Florence Gignac, Spain</p> <p>Early Life Exposure to Green Space and Childhood Cognition: A Mediation Analysis of Physical Activity and Air Pollution, Marcia Pescador Jimenez, US</p> <p>Exposure to Pesticides, Their Incarnation During Pregnancy and Their Effect on the Neurodevelopment of Infants, Children of Mothers of Families Residing in Coffee Growing Areas: Cohort Study, in Southwest Antioquia, Monica Lucia Soto Velasquez, Colombia</p> <p>Fluoride Exposure and Concurrent Cognitive Outcomes in 7-15 Year Old Children from Mexico City, Mexico, Deena Thomas, US</p>	<p>ORAL SESSION 15 Air Pollution and Heart Disease: What's New? <i>Chairs: Annette Peters, Germany & Cavin Ward-Caviness, US</i></p> <p>An Estimate of the Exposure-Response Relationship between Traffic-Related Ultrafine Particles and Systolic Blood Pressure, Doug Brugge, US</p> <p>Short-Term Exposure to Fine Particulate Matter and Myocardial Injury among Patients Undergoing Cardiac Catheterization, Alexandra Schneider, Germany</p> <p>Exposure to Fine Particulate Matter and Incidence of Coronary Events: The Mediation Effect by Atherosclerotic Progression, Meng Wang, US</p> <p>Dynamics of Skin Microvascular Blood Flow in 4-6 Year Old Children in Association with Pre- and Postnatal Black Carbon and Particulate Air Pollution Exposure, Katrien Witters, Belgium</p> <p>Exposure to Fine Particulate Matter and Inflammatory Cytokines and DNA Methylation in Healthy Young Adults, Shaowei Wu, China</p> <p>Ethic Discussion Discussant: Prisco Piscitelli, Italy</p>	<p>10:00 - 11:00 EMS 4 Relaxed US Asbestos Use Policy: Global Workers Shoulder the Risks <i>Chair: David Goldsmith, US</i></p> <p style="text-align: center;">David Goldsmith, US</p>

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11:30 - 12:00	<p>MEET THE ISEE PRESIDENT 2 <i>Mark J Nieuwenhuijsen, Spain</i></p>	BREAK			
12:00 - 13:30	<p>ORAL SESSION 16 Challenges and Opportunities in Assessing Aggregate/Concomitant Exposures and Their Impact on Health <i>Chairs: Elizabeth Radke-Farabaugh, US & Suril Mehta, US</i></p> <p>Matrix Selection in the Biomonitoring of Per- and Polyfluoroalkyl Substances (PFAS), Julianne Botelho, US</p> <p>Evaluating Metal Mixture Effects across Multiple Media, Yuri Levin-Schwartz, US</p> <p>A Congener-Specific and Mixtures Analysis of Plasma Polychlorinated Biphenyl (PCB) Levels and Incident Breast Cancer in the Carolina Breast Cancer Study, Humberto Parada Jr., US</p> <p>Socioeconomic Status, Diet and Hormone Therapy Predict Three-year Changes in Phthalate Metabolite Levels in a Multi-ethnic Cohort of Mid-life Women: the Study of Women's Health Across the Nation (SWAN), Mia Peng, US</p> <p>Breast Cancer Related Chemicals in Ingredient Lists of Personal Care Products: A Big Data Crowdsourcing Approach, Amit Rosner, Israel</p> <p>Critical Windows of Prenatal and Early Life Exposure to Toxic Metals and Early Childhood Kidney Function, Alison Sanders, US</p>	<p>SYMPOSIUM 9 Beyond Temperature: Assessing the Global Burden of Disease from Climate Change <i>Chairs: Susan Anenberg, US & Kristie Ebi, US & John Balbus, US</i></p> <p>Climate Change and Vector-Borne Diseases, Cyriil Caminade, UK</p> <p>Climate Change Will Exacerbate Maternal Malnutrition Globally, Emily Smith, US</p> <p>Leveraging Data from the Global Burden of Disease Study to Appraise the Potential Impact of Climate Change, Katrin Burkart, US</p> <p>Beyond Temperature: Risk Estimates for Adaptation Planning, Sari Kovats, UK</p> <p>Quantifying the Health Impacts of Extreme Events Caused by Climate Change: Next Steps for Detection and Attribution, Kristie Ebi, US</p> <p>John Balbus, US</p>	<p>ORAL SESSION 17 Chemical Mixtures, Social Stressors and Children's Environmental Health <i>Chairs: Devon Payne-Sturges, US & Berna van Wendel de Joode, Costa Rica</i></p> <p>Using Environmental Risk Score to Study a Mixture of Phenols and Parabens in Association with Gestational Age in a Puerto Rican Cohort, Amira Aker, Canada</p> <p>Exposure to Metal Mixtures and Blood Pressure among Bangladeshi Children Aged 5-7 Years, Maria Argos, US</p> <p>Effects of Accumulated Host, Social and Environmental Exposures on Early Childhood Educational Outcomes, Mercedes Bravo, US</p> <p>Prenatal Exposure to Select Endocrine Disruptors and Child Behaviour: A Multi-Pollutant Approach Based on a Cohort with Repeated Exposure Assessments, Ariane Guilbert, France</p> <p>A Mixtures Approach to Assessing Relationships between Environmental and Social Determinants of Health and Neonatal Size and Body Composition in the Healthy Start Cohort, Sheena Martenies, US</p> <p>Urban Environment During Early-Life and Blood Pressure in Children, Charline Warembourg, Spain</p>	<p>SYMPOSIUM 10 How GREAT is GRADE? Taking Stock of GRADE for Evidence Review in Environmental Epidemiology <i>Chairs: Hanna Boogaard, US & David Savitz, US</i></p> <p>Systematic Review on the Health Effects of Long-term Exposure to Traffic-Related Air Pollution, Hanna Boogaard, Netherlands</p> <p>Risk of Bias Assessments in Evidence Review: Strengths and Limitations, Tracey Woodruff, US</p> <p>How GREAT is GRADE? Taking Stock of GRADE for Evidence Review in Environmental Epidemiology, Francesco Forastiere, Italy</p> <p>Why Using Algorithms for Evidence Synthesis is Wrong: Triangulation is Needed, Neil Pearce, UK</p> <p>Susan Norris, US</p> <p>Jonathan Samet, US</p>	<p>12:00 - 13:00 EMS 5 Incorporating New Epidemiological & Economic Evidence in Estimating Air Pollution-Related Health Impacts with BenMAP-CE <i>Chair: Stefani Penn, US</i></p> <p>Evan Coffman, US</p> <p>Elizabeth Chan, US</p> <p>Stefani Penn, US</p>

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13:30 - 15:00	<p>13:30 - 15:00 Structural Racism and Population Environmental Health: A Panel Discussion <i>Chair: Devon Payne-Sturges, US</i> Mark J Nieuwenhuijsen, Spain & Beate Ritz, US & Adetoun Mustapha, Nigeria & Joan Casey, US & Marianthi-Anna Kioumourtzoglou, US & Margaret Hicken, US & Amruta Nori-Sarma, US & Tamarra James-Todd, US & Pi-i Debby Lin, US</p>	<p>13:30 - 14:30 E-POSTER DISCUSSION 4 Modelling Mixtures in Environmental Epi <i>Chair: Erik Lebret, Netherlands</i></p>	<p>13:30 - 15:00 E-POSTER VIEWING</p>		
15:00 - 16:30	<p>PECHA KUCHA SESSION 2 <i>Chairs: Molly Kile, US & Melissa Furlong, US</i></p> <p>Socioeconomic Isolation and Exposure to Air Toxics in the St. Louis Metropolitan Area, USA, Christine Ekenga, US</p> <p>Introducing Machine Learning to Environmental Health Research; Exploring Random Forest in Prediction Modeling, Jaclyn Parks, Canada</p> <p>Prenatal Exposure to Stress and Lung Function in 8-10 Year Old Children, Marcela Tamayo-Ortiz, Mexico</p> <p>Age Standardization Using Reweighting in Complex Survey Data and Its Application in Regression, Yutaka Aoki, US</p> <p>Assessing Disparity Using Measures of Racial and Educational Isolation, Mercedes Bravo, US</p> <p>Hyper-Localized Air Pollution Measures and Preeclampsia in Oakland, CA, Joan Casey, US</p> <p>Developing a Framework to Connect Health Equity Energy, and Green Infrastructure for Heat Impacts Mitigation in New York City, Lauren Smalls-Mantey, US</p>	<p>ORAL SESSION 18 Air Pollution: Spatial Analysis and Respiratory Outcomes <i>Chairs: Nelson da Cruz Gouveia, Brazil & Mildred Maisonet, US</i></p> <p>Development of a Land Use Regression Model for Characterizing Intra-Urban Spatial Variation of Fine Particles in an Andean Valley, Sara Grisales Vargas, Colombia</p> <p>Health Improvements Associated with Reduced Power Plant Emissions in the United States between 2005 and 2012, Lucas Henneman, US</p> <p>Effect of Changes in PM 2.5 Concentrations Throughout the Day on the Response of Acute Respiratory Adaptability to Exercise in Athletes of Medellin, 2018, Juan Gabriel Pineros-Jimenez, Colombia</p> <p>Perinatal Exposure to Particulate Matter, Environmental Tobacco Smoke and Respiratory Symptoms in Mexican Children, Nadya Rivera Rivera, US</p> <p>Spatial Decomposition Analysis of NO₂ and PM 2.5 Air Pollution in the United States, Yuzhou Wang, US</p> <p>The Influence of Spatial Resolution on NO₂-Attributable Pediatric Asthma Burden Estimates at the Global, National, and Urban Scale, Arash Mohegh, US</p>	<p>SYMPOSIUM 11 Seasonal Pesticide Use and Transient Physiological and Mental Health Alterations from Childhood to Adulthood <i>Chair: Jose Suarez-Lopez, US</i></p> <p>Repeated Exposure to Chlorpyrifos Results in Impaired Sustained Attention and Increased Impulsivity in Rats, Mary Louise Risher, US</p> <p>Biomarkers Profile and Neurobehavioral Functioning in Pesticide Exposed Populations in Northern Chile, Floria Pancetti, Chile</p> <p>Associations of Acetylcholinesterase Inhibition between Pesticide Spray Seasons with Depression and Anxiety Symptoms in Adolescents, and the Role of Sex and Adrenal Hormones on Gender Moderation, Jose Ricardo Suarez-Lopez, US</p> <p>Time After a Peak-Pesticide Use Period and Neurobehavior among Ecuadorian Children and Adolescents: the ESPINA Study, Cristina Espinosa da Silva, US</p> <p>Changes in Biomarkers and Neurodevelopmental Outcomes Among Male Adolescent Pesticide Applicators and Non-Applicators, Diane S. Rohlman, US</p>	<p>15:00 - 16:00 EMS 6 Womens Networking <i>Chair: Joan Casey, US</i></p> <p>Joan Casey, US</p>	<p>16:00 - 17:00 EMS 7 How Can We Shrink the Carbon Footprint of ISEE Conferences? <i>Chair: Alistair Woodward, New Zealand</i></p> <p>Alistair Woodward, New Zealand</p> <p>Mathilde Pascale, France</p> <p>Ruth Etzel, US</p> <p>Shilu Tong, China</p>



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16:30 - 18:30	<p>16:30 - 17:00 MEET THE ISEE PRESIDENT 3 Mark J Nieuwenhuijsen, Spain</p>			BREAK	
18:30 - 20:00		<p>18:30 - 20:00 ORAL SESSION 19 Health Inequities: Considering the Role of Air Pollution, Green Space, and Neighborhoods <i>Chairs: Tamarra James-Todd, US & Ami Zota, US</i></p> <p>Prenatal Ambient Air Pollutants and Maternal Depressive Symptoms at 12 Months Postpartum, Theresa Bastain, US</p> <p>Socioeconomic Disparity in the Association between Long Term Exposure to PM 2.5 and Mortality in 2640 Chinese Counties, Chunlei Han, Australia</p> <p>Could Equalizing Neighborhood Socioeconomic Status and Greenness Reduce Racial Disparities in All-Cause Mortality among Men with Prostate Cancer? Hari Iyer, US</p> <p>Chronic Neighborhood Stressors Can Modify the Effect of Nitrogen Dioxide on Term Birthweight in New York City, Richard Remigio, US</p> <p>Association between Residential Green Space During Childhood and Adult Earnings: A Longitudinal Study of Environmental Determinants of the American Dream across Ten United States Cities, Matthew Browning, US</p> <p>Ethic Discussion Discussants: Mathilde Pascal, France & Miguel Ángel Karam Calderón, Mexico</p>	<p>19:00 - 20:00 E-POSTER DISCUSSION 5 Climate Change and Health <i>Chair: Yun-Chol Hong, South Korea</i></p>	<p>19:00 - 20:00 E-POSTER VIEWING</p>	

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07:00 - 08:00	E-POSTER DISCUSSION 6 Air Pollution and Mortality - How Low Can We Go? <i>Chair: Rachel Tham, Australia</i>	E-POSTER VIEWING			
08:00 - 09:30	KEYNOTE SESSION 3 Audrey de Nazelle, United Kingdom: Cities and Health: The Case for a Systems Approach to Urban Policies Ulrike Gehring, The Netherlands: Coming of Age: Birth Cohorts on Air Pollution and Lung Health Ho Kim, Republic of Korea: Rapid Changes of the Population and the Environments in the East Asia and the Public Health Implications	ORAL SESSION 20 Covid and the Environment in ASIA <i>Chairs: Pei Chen Lee, Taiwan & Dirga Kumar Lamichhane, South Korea</i> Limitations in Japanese Public Health Research and Policy: Lessons from Fukushima and Covid-19, Yutaka Hamaoka, Japan Public Health Actions for the COVID-19 Outbreak and Improvement of Air Quality in South Korea, Sun-Young Kim, Korea Changes in Air Quality During the COVID-19 Lockdown in India, Harish Phuleria, India Airborne Transmission of COVID-19 and Other Coronaviruses in Indoor and Outdoor Environments: A Systematic Literature Review, Sotiris Vardoulakis, Australia Effect of Infectious Disease Outbreak on Air Quality: Impact of COVID-19 on Changes in Particulate Matter Concentrations in Taiwan, Charlene Wu, Taiwan	SYMPOSIUM 13 Children's Environmental Health in Latin America: Contribution of Birth Cohort Studies in the Region <i>Chair: Ana Maria Mora, Costa Rica & Agnes Soares da Silva, US</i> Birth Cohort of Environmental Exposure and Childhood Development - Pipa Project – Brazil, Carmen Fróes Asmus, Brazil The Early Life Exposures in Mexico to Environmental Toxicants (ELEMENT) Project, Martha M Tellez-Rojo, Mexico PROGRESS (Programming Research in Obesity, Growth, Environment and Social Stressors), Marcela Tamayo-Ortiz, Mexico The Infant's Environmental Health Study (ISA) a Birth Cohort Situated in Rural Costa Rica, Berna van Wendel de Joode, Costa Rica Intrauterine Exposure to Endocrine Disruptors (Phenols, Parabens, Triclosan and Phthalates) & Their Influence on Birth Weight, SAMI Cohort, Medellín – Colombia, Carlos Alberto Gómez Mercado, Colombia SEMILLA: Study of Environmental Exposure of Mothers and Infants Impacted by Large-Scale Agriculture, Alexis J Handal, US	ORAL SESSION 21 Spatial Epidemiology and Environmental Health <i>Chairs: Shilu Tong, China & Yuming Guo, Australia</i> A Space/Time Data Fusion Method for Accurately Estimating Wildfire Smoke Concentrations During the October 2017 California Fires to Inform Population-Level Exposure, Stephanie Cleland, US The Development of a Spatially Resolved Retrospective Ensemble Forecast Model of West Nile Virus in Long Island, New York, Nicholas DeFelice, US Modelling Nationwide Spatial Variation of Ultrafine Particles Based on Mobile Monitoring, Jules Kerckhoffs, Netherlands Meteorological Factors are Associated with Asthma Prevalence in England, Nicholas Osborne, Australia A Spatiotemporal Early Warning System for Dengue Outbreak in Guangzhou, China, Zhoupeng Ren, China Ethic Discussion Discussants: Ejaz Khan, Pakistan & Shilu Tong, China	
09:30 - 10:00	BREAK				



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10:00 - 11:30	<p>ORAL SESSION 22 Air Pollution and Brain/Cognitive Health in Adults <i>Chairs: Melinda Power, US & Sabah Quraishi, US</i></p> <p>Association between Long-Term Exposure to Air Pollution and Ambient Noise with Altered Resting-State Brain Connectivity in the 1000BRAINS Study, Lina Glaubitz, Germany</p> <p>Long-Term Exposure to Ambient Air Pollution and Risk of Dementia: Results of the Prospective Three-City Study, Marion Mortamais, France</p> <p>Air Pollution, Dementia, and Related Outcomes: An Updated Systematic Review, Melinda Power, US</p> <p>Long-Term Air Pollution Exposure and Incident Dementia in Older Adults in the Ginkgo Evaluation of Memory Study, Erin Semmens, US</p> <p>The Causal Effect of PM 2.5 Exposure on Hospital Admissions Among Medicare Enrollees with Chronic Debilitating Brain Disorders: A National Study, Maayan Yitshak Sade, US</p>	<p>SYMPOSIUM 14 Regulating Pesticide Use in Africa to Address Emerging Health & Environmental Risks: Local & Int'l Perspective <i>Chairs: Mohamed Aqiel Dalvie, South Africa & Melissa Perry, US</i></p> <p>Ethics of Pesticide Use in Africa, Adetoun Mustapha, Nigeria</p> <p>Serum Organochlorine Pesticides Level CYP1A1 Genetic Polymorphism & Risk of Prostate Cancer Cases Control Study, Fatima Abubaker Hamad, Sudan</p> <p>Relationship between Urinary Levels of Organophosphate Metabolites and Pesticide Exposures among Rural School Boys of the Western Cape, Mohamed Aqiel Dalvie, South Africa</p> <p>Human and Environmental Exposure to Pesticides in Uganda: Insights from Water, Food and Human Urine Assessments, Aggrey Atuhaire, Uganda</p>	<p>SYMPOSIUM 15 Health Effects of Per- and Polyfluoroalkyl Substances: What Have We Learned Since the C8 Health Project? <i>Chairs: Jonathan Hofmann, US & Kyle Steenland, US</i></p> <p>Population Studies of Disease Related to Community PFAS Exposure in Sweden from Fire-Fighting Foam Contamination, Tony Fletcher, UK</p> <p>Exposures to Per- and Polyfluoroalkyl Substances and Metabolic Consequences in Adult Populations, Qi Sun, US</p> <p>Serum Concentrations of Per- and Polyfluoroalkyl Substances and Risk of Renal Cell Carcinoma: A Nested Case-Control Study in the Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial, Joseph Shearer, US</p> <p>Understanding Exposures to New PFAS in the Presence of Legacy PFAS The GenX Exposure Study, Jane Hoppin, US</p> <p>The Associations between Perfluoroalkyl Substances and Lipid Profile in an Exposed Young Adult Population in the Veneto Region, Cristina R Canova, Italy</p>	<p>SYMPOSIUM 16 Increasing Knowledge about Health Effects of Wildfire Smoke: Summary of Multiagency Research for Public Health <i>Chairs: Maria Mirabelli, US & Ambarish Vaidyanathan, US</i></p> <p>Air Quality and Aerosol Predictions at National Oceanic and Atmospheric Administration (NOAA) and Their Applications, Ivanka Stajner, US</p> <p>Using NASA Earth Observations to Strengthen Air Quality Applied Research and Management, John Haynes, US</p> <p>CDC's Translational Research Activities Addressing Public Health Impacts of Wildfire Smoke Exposure, Ambarish Vaidyanathan, US</p> <p>US EPA Research Approaches to Better Understand Human Impacts from Wildfire Smoke Exposure, Ana G Rappold, US</p>	<p>10:00 - 11:00 EMS 8 One Health - Policy Implications and Applications <i>Chair: Ronnie Levin, US</i></p> <p>How a One Health Assessment of Lead Seasonality Can Improve Our Lives, Ronnie Levin, US</p> <p>Lead Poisoning in Cattle and Food Chain Implications, Karyn Bischoff, US</p> <p>A One Health Environmental Education Programs for Schools: Preventing and Mitigating Lead Poisoning in Schools and Communities, Carolina Vieira, US</p>
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12:00 - 13:30	<p>ORAL SESSION 23 COVID-19 and the Environment: Early Lessons from the Americas and Europe <i>Chairs: Julian Marshall, US & Pallavi Pant, US</i></p> <p>PM2.5 and Ozone Air Pollution Levels Have Not Dropped Consistently Across the US Following Societal Covid Response, Bujin Bekbulat, US</p> <p>Air Quality and Health Burden During COVID-19 Response, Leverage for Future Air Quality Management, Zafar Fatmi, Pakistan</p> <p>Urban Air Pollution May Enhance COVID-19 Case-Fatality and Mortality Rates in the United States, Donghai Liang, US</p> <p>Air Quality and COVID-19 Mortality in the Chicago Area, Molly Scannell Bryan, US</p> <p>Impacts of the COVID-19 Lockdown on Cooking Fuel Use Patterns, Income and Food Security in an Informal Settlement in Nairobi, Kenya, Matthew Shupler, UK</p> <p>Exposure to Air Pollution and COVID-19 Mortality in the United States, Xiao Wu, US</p>	<p>ORAL SESSION 24 Evolution of Omics: From Epigenomics to the Metabolome <i>Chairs: Andrea Baccarelli, US & Kelly Brunst, US</i></p> <p>Common DNA Methylation Signatures of Arsenic Exposure and Incident Cardiovascular Disease in the Strong Heart Study, Arce Domingo-Reloso, Spain</p> <p>Untargeted Metabolomic Profiles of Air Pollution Exposure During Pregnancy and Postpartum Depression Risk: A Pilot Study, Megan Niedzwiecki, US</p> <p>Prenatal Phthalate Exposure is Associated with Changes to the Placental Ranscriptome, Alison Paquette, US</p> <p>Selenium-Associated Decrease of Mir-216a and Mir-217 Expression in Placenta and Their Associations With Neurobehavioral Development at Birth: A Genome-Wide Study of Two U.S. Birth Cohorts, Fu-Ying Tian, US</p> <p>Linking Biomarkers of Environmental Chemical Exposure and Endometriosis: Integrating the Exposome and Metabolome in the ENDOXOMICS-b Study, Komodo Matta, France</p>	<p>ORAL SESSION 25 Heavy Metals, Trace Elements, and Population Health <i>Chairs: Marco Vinceti, Italy & Lauren Wise, US</i></p> <p>Prenatal Metal Mixtures and Birth Weight for Gestational Age in A Lower Income Predominately Hispanic Pregnancy Cohort, Caitlin Howe, US</p> <p>Association of Childhood Multiple Essential and Toxic Trace Elements with Longitudinal Cardiometabolic Risk Factors, Katerina Margetaki, US</p> <p>Low-Level Exposure to Multiple Metals Associated With Spirometry-Defined Lung Disease in American Indians: Evidence from the Strong Heart Study, Marisa Sobel, US</p> <p>Mixed Metal Exposures Measured from Toenail in Relation to Mini-Mental State Examination Scores in the Normative Aging Study, Aaron Specht, US</p> <p>Association between Menstrual Bleeding and Blood Cadmium Concentrations, Kristen Upson, US</p> <p>Urinary Metals and Incident Diabetes in Midlife Women: Study of Women's Health Across the Nation (SWAN), Xin Wang, US</p>	<p>SYMPOSIUM 17 Setting Global Priorities in Environment, Climate and Health <i>Chairs: Manolis Kogevas, Spain & Beate Ritz, US & Annette Peters, Germany</i></p> <p><i>Discussion Moderator: Roel Vermeulen, Netherlands</i></p> <p>Introduction to the Symposium and Presentation of the European Union HERA Project on Research Priorities, Manolis Kogevas, Spain</p> <p>Setting the European Environment and Health Research Agenda - Research Gaps, Anke Huss, Netherlands</p> <p>Setting the European Environment and Health Research Agenda - Research Gaps, Annette Peters, Germany</p> <p>Improving and Expanding Estimates of the Global Burden of Disease Due to Environmental Health Risk Factors, Rachel Shaffer, US</p>	<p>SNRN PANEL DISCUSSION <i>Chair: Barrett Welch, US</i></p> <p>Catheryn Tonne, Spain</p> <p>Kyle Messier, US</p> <p>Marcia Jimenez Pescador, US</p> <p>Toyib Olan, Canada</p>
13:30 - 15:00	<p>13:30 - 14:30 E-POSTER DISCUSSION 7 Heavy Metals and Health <i>Chair: Margaret Karagas, Germany</i></p>	<p>13:30 - 15:00 E-POSTER VIEWING</p>			



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15:00 - 16:30	GENERAL BUSINESS MEETING AND AWARDS SESSION Mark J Nieuwenhuijsen, Spain Michelle Turner, Spain Beate Ritz, US				
16:30 - 17:00	BREAK				
17:00 - 18:30	SYMPOSIUM 18 New Frontiers in Biomarkers of Environmental Exposures for Reproductive and Perinatal Epidemiologic Research <i>Chairs: Keewan Kim, US & Alexandra Purdue-Smithe, US</i> Placental Epigenetic Clocks: Relations with In-Utero Exposures, Ancestry, and Fetal Growth, Fasil Tekola-Ayele, US Preconception Telomere Length and Pregnancy Outcomes: A New Marker of Reproductive Aging? Alexandra Purdue-Smithe, US Ovarian Follicular Fluid: An Innovative Approach to Assess Internal Dose for Reproductive Epidemiology, Michael S. Bloom, US Associations of Breast Milk Extracellular Vesicle MicroRNAs with Perfluoroalkyl Substances in a Mother-Infant Cohort from the Faroe Islands, Allison Kupsco, US What a Drop Can Do? Measurements Using Newborn Dried Blood Spots in Child Health Research, Akhgar Ghassabian, US	17:00 - 18:00 EMS 3 Assessing Exposure to Tropical Cyclones for Epidemiological Research: Existing Resources and Future Needs <i>Chair: Brooke Anderson, US</i> Brooke Anderson, US			



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18:30-20:00	<p>18:30 - 20:00 SYMPOSIUM 19 How the Changing Climate Affects the Health of Children Worldwide <i>Chair: Nsedu Obot Witherspoon, US</i></p> <p>Flooding and Child Health, Perry Sheffield, US</p> <p>Health Disparities in Children for ISEE August 2020, Leslie Rubin, US</p> <p>Wildfires and Children's Environmental Health, Mark Miller, US</p>	<p>18:30 - 20:00 ORAL SESSION 26 Air Pollution Impacts in Susceptible Populations <i>Chairs: Michelle Bell, US & Antonella Zanobetti, US</i></p> <p>Disparities in Premature Deaths Attributable to Fine Particulate Matter (PM2.5) Exposure between Immigrants to and Those Born in the United States, Kelvin Fong, US</p> <p>US Air Pollution Policy Changes Under the Trump Administration and Their Impact on Public Health Disparities, Gretchen Goldman, US</p> <p>Health Effects of Short-Term Exposure to Particulate Matter in People with Disabilities: At the Intersection of Disability, Socioeconomic Status, and Co-Morbid Conditions, Sera Kim, Korea</p> <p>Prenatal Exposure to Particulate Air Pollution and Gestational Age at Delivery in Massachusetts Neonates 2001-2015 - A Perspective of Causal Modeling and Health Disparities, Xinye Qiu, US</p> <p>Ethic Discussion Discussants: Helene Margolis, US & Prisco Piscitelli, Italy & Reginald Quansah, Ghana</p>	<p>19:00 - 20:00 E-POSTER DISCUSSION 8 Children's Health, Phthalates and Phenols <i>Chair: Pauline Mendola, US</i></p>	<p>19:00 - 20:00 E-POSTER VIEWING</p>	

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07:00 - 08:00	E-POSTER DISCUSSION 9 Built Environment and Health <i>Chair: Cathryn Tonne, Spain</i>	E-POSTER VIEWING			
08:00 - 09:30	KEYNOTE SESSION 4 <i>Chairs: Beate Ritz, US & Joel Kaufman, US</i> Martine Vrijheid, Spain: The Exposome and Child Health – What Have We Learned? Manolis Kogevinas, Spain, ISEE John Goldsmith Awardee, Award Lecture, Global Drinking Water: Infections, Chemicals or Nothing	ORAL SESSION 27 Role of Environmental Toxins on Obesity and Cardiometabolic Diseases <i>Chairs: Sudha Ramalingam, India & Pi-I Debby Lin, US</i> Association between Blood Lead Levels and Metabolic Syndrome Considering the Effect of Thyroid Stimulating Hormones Based on the 2013 Korea National Health and Nutrition Examination Survey: Does the Thyroid Stimulating Hormone Act as an Intermediate Factor? Ji Yoon Choi, Korea Effect of Prenatal Bisphenol A Exposure on Child Obesity through Epigenetic Influence on the Insulin-Like Growth Factor 2 Receptor(IGF2R) Gene, Yoon-Jung Choi, Korea Short- and Long-Term Effects of Ambient PM 2.5 Exposure on Hypertension and Diabetes in an Indian Cardiometabolic Surveillance Cohort over Seven Years, Siddhartha Mandal, India Does Habitual Physical Activity Exacerbate Air Pollution Risk on the Development of Diabetes: A Longitudinal Cohort Study, Hsiao Ting Yang, China Pregnancy Endocrine Disruption and Obesity-Related Outcomes in the Third Generation, Gyeyoon Yim, US	SYMPOSIUM 20 The Evolving Science of Fluoride Exposure and Neurocognitive Effects: Does Timing of Exposure and Sex Matter? <i>Chair: Christine Till, Canada</i> Risks and Benefits of Fluoride Exposure: Why Timing Matters, Christine Till, Canada Systematic Review of Fluoride Exposure and Neurodevelopmental and Cognitive Health Effects, Kyla Taylor, US Urinary Fluoride Patterns Among Children in Mexico and Canada, Rivka Green, Canada Identifying Critical Periods of Neurotoxicity to Fluoride Exposure in Canadian Children, Linda Farmus, Canada Fluoride Exposure and Neurodevelopmental Outcomes Among Children in the United States: A Pilot Study, Ashley Malin, US	SYMPOSIUM 21 Leveraging OMICS in Environmental Epidemiological Studies to Understand Human Health Risks of Chemical Exposures <i>Chairs: Elizabeth Radke-Farabaugh, US & Stephanie Kim, US</i> Statistical Challenges in the Analysis of Blood-Derived DNA Methylation Data from Environmental Epidemiology Studies, Devin Koestler, US High-Resolution Mass Spectrometry; Where Chemistry Meets Biology, Roel Vermeulen, Netherlands The Potential Application of Transcriptomics and Methyloomics in Environmental Epidemiological Studies for Chemical Assessments, Stephanie Kim, US Applications and Integration of Multiplatform Omics Data in Environmental Epidemiology, Karl Kelsey, US	
09:30 - 10:00	BREAK				

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	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4	PARALLEL 5
10:00 - 11:30	<p>ORAL SESSION 28 Health Impacts of Extreme Temperature in Urban Environments <i>Chairs: Amruta Nori-Sarma, US & Kate Weinberger, Canada</i></p> <p>Housing Characteristics that Increase Risk of Summer Excess Mortality due to Hot Weather in New York City, Sarah Johnson, US</p> <p>Scenarios of Urban Temperature Related Mortality for Oslo, Norway, Shilpa Rao-Skirbekk, Norway</p> <p>Assessment of Climate Trends and Diarrheal Diseases Risks in Three Coastal Medium-Sized Cities of Senegal, Sokhna Thiam, Senegal</p> <p>Temperature Modifies the Association between Air Pollution and Cardiovascular Disease Hospital Admissions in the Vaal Triangle Air Pollution Priority Area, South Africa, Janine Wichmann, South Africa</p> <p>Ethic Discussion Discussants: Helene Margolis, US & Atanu Sarkar, Canada</p>	<p>SYMPOSIUM 22 Methodological Challenges in Epidemiological Studies of Water Quality: Lessons Learned <i>Chairs: Jyotsna S. Jagai, US & Alison Krajewski, US</i></p> <p>Lessons Learned for Obtaining Water Data at the State Level and Linkage to Health Outcomes Data, Alison Krajewski, US</p> <p>Estimating Water Quality and Exposure Assessment Among Private Well-Owners, Kristen Malecki, US</p> <p>Exposure Misclassification: Temporal and Spatial Variability in Estimates of Individual Species and Mixtures of Disinfection Byproducts, J. Michael Wright, US</p> <p>Epidemiology of Drinking Water Contaminants: Inferring Exposure through Population Biomarkers, Tony Fletcher, UK</p> <p>The Contribution of Groundwater Arsenic to Public Water Arsenic Concentrations in the United States, 2006-2011, Maya Spaur, US</p> <p>Challenges of Assessing Multiple Simultaneous Water Exposures, Jyotsna S. Jagai, US</p>	<p>ORAL SESSION 29 Occupational Heat Exposure, Kidney Disease, and Productivity <i>Chairs: David Richardson, US & Kate Applebaum, US</i></p> <p>Dysuria and Medical Events Related to Heat Stress and Muscle Injury among Male Nicaraguan Sugar Cane Workers, Katie Applebaum, US</p> <p>Heat Exposure and Kidney Health of Costa Rican Rice Workers, Jennifer Crowe, Costa Rica</p> <p>Evaluation of Heat Exposure on Dehydration and Kidney Function among Sea Salt Workers in Thailand, Titaporn Luangwilai, Thailand</p> <p>Environmental Risk Factors for Acute Kidney Injury in Female Agricultural Workers in Spain, Cristina O'Callaghan-Gordo, Spain</p> <p>Wet Bulb Globe Temperatures and Risk of Acute Kidney Injury among Central American Workers, Zoe Petropoulos, US</p> <p>Occupational Heat Stress and Heavy Workload Induce 'Productivity Losses' - Epidemiological Evidence from a Large Cross-Sectional Study in Indian Occupational Settings, Vidhya Venugopal, India</p>	<p>SYMPOSIUM 23 Exposure to Heavy Metals and Its Detrimental Health Effects in Asia and Pacific Region <i>Chair: Shu-Li Wang, Taiwan</i></p> <p>Metals as Endocrine Disruptors and the Related Health Effects, Shu Li Julie Wang, Taiwan</p> <p>Joint Effects of Blood Arsenic, Lead, and Selenium on Blood Pressure Outcomes in a Bangladeshi Cohort: A Generalized Weighted Quantile Sum Approach, Juwel Rana, Bangladesh</p> <p>Mercury Levels in Pregnant Women in Japanese General Population and Child Birth Size, Atsuko Araki, Japan</p> <p>The Metal Exposure from Air Pollution and Health Impacts in Asia; It's A Review, Syed Emdadul Haque, Bangladesh</p> <p>Blood Lead Level Estimates for Low- and Middle-Income Countries, Bret Ericson, Australia</p>	<p>SYMPOSIUM 2 Water and Sanitation in the Eastern Mediterranean <i>Chair: Wael Al-Delaimy, US</i></p> <p>Untreated Wastewaters and Their Impacts on Human Health in Cases of Lake to Access to Safe Drinking Waters, Driss Belghyti, Morocco</p> <p>Health Impact Assessment of Contamination of River Ravi, Zafar Fatmi, Pakistan</p> <p>Water and Conflict in the Eastern Mediterranean Region, Wael Al-Delaimy, US</p> <p>Monitoring WASH for Health in the WHO Eastern Mediterranean Region, Mazen Malkawi, Jordan</p> <p>Water and Wastewater Management in Healthcare Centers in the West Bank of Palestine, Issam Al-Khatib, Palestinian Territory</p> <p>Remote Sensing & Geographical Information System in Sudan to Determine Children's Malnutrition Caused by Water & Environmental Factors, Egbal Elnageeb, Sudan</p> <p>Water, Sanitation and Hygiene (WASH) Efforts and Sustainable Development Goal 6 (SDG6), Rawan Araj, Jordan</p>
11:30 - 12:00	BREAK				

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Pre-Recorded Sessions ■ Live Sessions

	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4	PARALLEL 5
12:00 - 13:30	<p>ORAL SESSION 30 Air Pollution, Mental Health, and Behavior <i>Chairs: Heather Volk, US & Aisha Dickerson, US</i></p> <p>Fine Particulate Matter Exposure During Childhood Relates to Hemispheric-Specific Differences in Cortical Thickness, Megan Herting, US</p> <p>Prenatal Fine Particulate Matter Exposure and Childhood Anxiety Symptoms, Laura McGuinn, US</p> <p>Identifying Sensitive Windows of Air Lead Exposure Associated with Behavioral Outcomes at Age 12, Erika Rasnick, US</p> <p>Mental Health Outcomes Associated with Air Pollutants in California, Rupa Basu, US</p> <p>Ethic Discussion Discussants: Ahmed K. Al-Delaimy, Iraq, Jutta Lindert, Germany</p>	<p>ORAL SESSION 31 Environmental Chemicals and Metabolic Health from Pregnancy to Adolescence <i>Chairs: Remy Slama, France & Barrett Welch, US</i></p> <p>Prenatal Exposure Phthalates and the Association with Maternal Hyperglycemia, Impaired Glucose Intolerance, Gestational Diabetes, and Gestational Weight Gain in a High-Risk Latina Population, Helen Zukin, US</p> <p>Prenatal Urinary Phthalates and Postpartum Metabolic Health in Women from Mexico City, Haotian Wu, US</p> <p>Prenatal Exposure to Multiple Persistent Organic Pollutants and Childhood BMI Trajectories- a Comparison of Three Different Methods for Exposure Mixture Analysis in a Mixed Model Framework, Elena Colicino, US</p> <p>Periods of Susceptibility: Exposure to Per- and Polyfluoroalkyl Substances and Children's Body Composition, Yun Liu, US</p> <p>Prenatal and Postnatal Exposure to Per- and Polyfluoroalkyl Substances (PFAS) and Cardiometabolic Profile in Children from Six European Cohorts, Eleni Papadopoulou, Norway</p> <p>Dysregulated Lipid and Fatty Acid Metabolism link Perfluoroalkyl Substances Exposure and Impaired Glucose Metabolism in Young Adults, Zhanghua Chen, US</p>	<p>ORAL SESSION 32 Causal Inference in Environmental Epidemiology <i>Chairs: Tarik Benmarhnia, US & Erika Garcia, US</i></p> <p>The Relationship Between Phthalate Risk Score and Gestational Age at Delivery is Mediated by Cytochrome p450 Derived Eicosanoids: Application of a Novel Analytical Pipeline for High-Dimensional Multivariate Mediation Analysis, Max Aung, US</p> <p>Maternal Experience of Multiple Hardships and Fetal Growth: Extending Environmental Mixtures Methodology to Social Exposures, Dana Goin, US</p> <p>Associations of BFR Mixtures with ASD Risk and SRS Scores, Ghassan Hamra, US</p> <p>Health Effects of Air Quality Regulations in Seoul Metropolitan Area: Applying Synthetic Control Method to Controlled Interrupted Time Series Analysis, Soo-yeon Kim, Korea</p> <p>Air Pollution and Autism Spectrum Disorder in Israel: A Negative Control Analysis, Raanan Raz, Israel</p> <p>Ethic Discussion Discussants: Martin Tondel, Sweden & Miguel Ángel Karam Calderón, Mexico</p>	<p>ORAL SESSION 33 Big Data in Air Pollution Health Studies: Computational Challenges and Advances <i>Chairs: Allan Just, US & Marianthi-Anna Kioumourtzoglou, US</i></p> <p>Impact of Long-term Exposures to PM 2.5 Sources on Cause-Specific Mortality in U.S. Medicare Beneficiaries, Fatemeh Kazempirkouhi, US</p> <p>Estimates of Ozone-Attributable Burden of Disease in Urban Areas Worldwide, Daniel Malashock, US</p> <p>Long-Term Effects of Fine Particulate Matter on Neurological Disorders in the US Medicare Population: A Nationwide Analysis, Liuhua Shi, US</p> <p>Chronic Effects of Low-Level Air Pollution on Cause-Specific Mortality Among 30 Million Residents of Europe: Meta-Analysis of 7 European Large Administrative Cohorts in the ELAPSE Project, Massimo Stafoggia, Italy</p> <p>Association of Short-Term PM2.5 with Hospital Readmissions in Heart Failure Patients in North Carolina, USA, Lauren Wyatt, US</p>	<p>KIRK SMITH MEMORIAL <i>Chair: Sumi Mehta, US</i></p> <p>Aaron Cohen, US</p> <p>Ajay Pillarisetti, US</p> <p>Anaite Diaz, Guatemala</p> <p>Josh Apte, US</p> <p>Kalpana Balakrishnan, India</p> <p>Linwei Tian, China</p>

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	PARALLEL 1	PARALLEL 2	PARALLEL 3	PARALLEL 4	PARALLEL 5
13:30 - 15:00	<p>13:30 - 14:30 E-POSTER DISCUSSION 10 Reproductive Effects of Environmental Exposures: Mixtures and Multiple Exposures <i>Char: Jaime Hart, US</i></p>	<p>13:30 - 15:00 E-POSTER VIEWING</p>			
15:00 - 16:30	<p>ORAL SESSION 34 Metals as Cardiovascular Risk Factors: New Evidence <i>Chairs: Ana Navas-Acien & Miranda Jones, US</i></p> <p>Blood-based DNA Methylation Biomarkers for Cumulative Lead Exposure: Associations with Cardiovascular Disease Incidence and Mortality in the Strong Heart Study, Xu Gao, US</p> <p>Urinary Arsenic and Heart Disease Mortality in NHANES 2003-2014, Anne Nigra, US</p> <p>Do We Underestimate Risk of Mortality due to Lead Exposure? Sung Park, US</p> <p>Associations Between PM 2.5 Metal Components and QT Interval Length, Adjani Peralta, US</p> <p>Urinary Cadmium and Risk of Incident Heart Failure and Acute Myocardial Infarction Among Never-Smokers in the Danish Diet, Cancer, and Health Cohort, Clara Sears, US</p>	<p>SYMPOSIUM 24 Crossing Silos and Networking to Advance Environmental Health Disaster Research <i>Chairs: Aubrey Miller, US & Gwen Collman, US</i></p> <p>NIH DR2 Empowering Data Collection for the COVID-19 Research Response, Aubrey Miller, US</p> <p>Implementing Community Engaged Disaster Research in Response to Disasters, Jennifer Horney, US</p> <p>Creating a National IRB Preparedness Training Program for the Review of Disaster-Related Research, Joan Pakenham, US</p> <p>Capturing Post-Disaster Environmental Exposures, Diana Rohlman, US</p> <p>The DR2 Toolkit: Lessons Learned from the NIH Disaster Research Response Program in the Midst of COVID-19, Richard Kwok, US</p> <p>Crossing Silos and Networking to Advance Environmental Health Disaster Research, Karen Lutrick, US</p> <p>Building a Community of Practice to foster Multidisciplinary Disaster Research, Erin Haynes, US</p>	<p>SYMPOSIUM 25 Epidemiological Surveillance of Air Quality and Human Health in Latin America (LA) <i>Chairs: Horacio Riojas, Mexico & Carlos Santos-Burgoa, US</i></p> <p>Environmental and Health Surveillance of Air Quality in Chile, Sandra Cortes, Chile</p> <p>Sector Response Plan for Comprehensive Health Risk Management for Air Quality in Bogotá, as a Public Health Policy, Luis Jorge Hernández, Colombia</p> <p>Epidemiological Research and Air Quality Policies in Mexico, Horacio Riojas, Mexico</p> <p>A proposal to Strengthen Public Health Surveillance Systems on Air Pollution in Latin America and the Caribbean (LAC), Agnes Soares da Silva, US</p>	<p>ORAL SESSION 35 Chemical Exposures in Relation to Pubertal Development and Reproductive Hormones <i>Chairs: Gayle Windham, US & Dina Dobraca, US</i></p> <p>Exposure to Perfluorooctanoic Acid and Effects on Reproductive Hormones and Pubertal Onset in a Longitudinal Study of Young Girls, Susan Pinney, US</p> <p>Prenatal and Peripubertal Exposure to Per- and Polyfluoroalkyl Substances and Pubertal Development in Boys and Girls in the HOME Study, Yun Liu, US</p> <p>Fluoride Exposure and Reproductive Health Among Adolescent Females in the United States: NHANES 2013-2016, Ashley Malin, US</p> <p>Associations Between Exposure to Parabens and Reproductive Hormones: A Study Among Canadian Girls Age 6 to 17 Years, Maryse Bouchard, Canada</p> <p>PBDE Exposure and the Association with Testosterone, Estrone and Estradiol Around the Time of Thelarche, Cecily Fassler, US</p> <p>Pubertal Urinary Phthalate Metabolite Concentrations and Semen Quality Among Young Russian Men: Exploring Potential Windows of Susceptibility, Lidia Minguez Alarcon, US</p>	<p>15:00 - 16:00 EMS 9 Asthma in the Changing World. As Environmental Epidemiology Can Enrich the Practice in Promoting Health <i>Chairs: Telma Nery, Brazil & Rafael Buralli, Brazil</i></p> <p>Lavinia Clara Del Roio, Brazil</p> <p>Dra Hegles Rosa Oliveira, Brazil</p> <p>Jefferson Freitas, Brazil</p> <p>Tito Cesar dos Santos Nery, Brazil</p> <p>Telma Nery, Brazil</p>
16:30 - 19:00	BREAK				
19:00 - 20:00	E-POSTER VIEWING SLOT				