

**Preconference Training Workshops**

1	<i>Children's Environmental Health</i>	In general, children receive a higher “dose” of toxicants in a given environment, are less able to neutralize toxicants and live long enough for diseases with long latency periods to manifest. This workshop will cover the principles underlying the vulnerability of children and will highlight risks in specific environments. This workshop is part of a series organised by staff from the Network of WHO Collaborating Centres for Children's Environmental Health at previous PBC conferences. This workshop provides an opportunity for engagement of a wider audience and additional training with evaluation materials made available to trainees.
2	<i>Integrated Environmental Health Risk and Impact Assessment</i>	This workshop offers a refresher on understanding some of the practical risk impact assessment methods – from the most basic to a more complex integration of risk and impact assessment
3	<i>Identification of Priority Actions for Regional Collaboration</i>	To share a great insight into the challenges and future needs in conducting effective carbon mitigation policies and activities based on the dynamic networking platform between researchers, policymaker and government-related institutes in Asia-pacific Region

**Day 1: 29 August 2022**

1200	1530	<b>Pre-conference Training Workshop &amp; Registration</b>	
1200	1330	<b>Identification of Priority Actions for Regional Collaboration - Crystal B</b>	
		NR: Hyun Sik Chang (Ewha Womans University), Korea <i>Korea's ODA &amp; SDGs: Climate Change</i>	
		IP: Hanna Cho (KEI), Korea <i>Climate change impacts and adaption</i>	
		IP: Suil Kang (IERI, GIST), Korea <i>Strengthening Endogenous Capacities and Technologies</i>	
1330	1400	<b>Break</b>	
1400	1530	<b>Integrated Environment Health Risk and Impact Assessment</b>	
		V: Jimmy Jaghoro Hilly (University of New South Wales), UNSW, Aus IP: Injeong Kim (KITECH), Korea	
		V: Dee Lewis (University of Guelph), Canada V: Angie Werner (NCEH, USCDC), US V: Colleen Lau (UQ), Aus IP: Paul Jagals - (UQ), Aus	
		<b>Children's Environmental Health</b>	
		IP: Peter Sly (Children's Health Environment Program), UQ, Aus <i>Vulnerability of Children to environmental exposures</i>	
		IP: Stephania Cormier (LSU), US <i>Air pollution and Children's Health</i>	
		V: Antonio Pascale (University of Montevideo), Uruguay <i>Impacts of pesticide exposure in childhood</i>	
1600	1700	<b>Opening ceremony</b> IP: Stephania Cormier, Chair, PBC Board of Directors (LSU), US IP: Kyoung-Woong Kim, Conference President (GIST), Korea IP (NR): Dr. Akeem Ali, Head of Office, (WHO Asia-Pacific Centre for Environment and Health), Korea  <b>Opening address: V: (NR): Dr Hyun Kim (WHO Climate Change Project Coordinator) "Health resilience to climate change"</b>	
1700	1830	<b>Plenary 1: Environmental exposures in the Asia-Pacific region in a changing climate</b>	
		Chair: IP: Paul Jagals, (UQ), Aus Co-chair: V: Ayaho Yamamoto, (UQ), Aus	
		<b>Speakers</b>	
		Keynote Speaker: NR : Youn-Joo An (Konkuk University), Korea Effects of microplastics in ecosystems and its implications for human health	
		IP: Lunchakorn Prathumratana (SWITCH-Asia), Thailand Climate policies in tackling climate change	
		V: Budi Haryanto (Universitas Indonesia), Indonesia Impact of climate change on environmental exposures in Indonesia	

1830		<b>Welcome Party</b>		
Day 2: 30 August 2022				
0800	0900	<b>Registration</b>		
0900	1030	<b>Plenary 2: Environmental impacts on infectious disease [from 2021 focus meeting]</b>		
		Chair: <b>V:</b> William Suk (NIEHS), US Co-chair: <b>IP:</b> Sujung Lee (GIST), Korea		
		<b>Speakers</b>		
		<b>IP:</b> Dwan Vilcins (UQ), Aus	Oxidative stress as a mediator of respiratory disease	
		<b>V:</b> Ayaho Yamamoto (UQ), Aus	Environmentally Persistent Free Radicals increase susceptibility to Sars CoV-2 infection	
		<b>IP:</b> Peter Sly (UQ), Aus	Age as a susceptibility factor for SARS-Cov2 infection	
1030	1100	<b>Break</b>		
1100	1230	<b>Symposium 1: New trends in air pollution</b>	<b>Symposium 2: Water</b>	<b>Symposium 3: Heavy metals</b>
		Chair: <b>IP:</b> Stephania Cormier (LSU), US Co-chair: <b>V:</b> Jimmy Jaghoro Hilly (UNSW), Aus	Chair: <b>IP:</b> KW Kim (GIST), Korea Co-chair: <b>IP:</b> Lilyananda Reta Puspasari (GIST), Korea	Chair: <b>IP:</b> Tahir Rafique (PCSIR), Pakistan Co-chair: <b>IP:</b> Randy Novirsa (Universitas Andalas), Indonesia
		<b>Speakers</b>		
		<b>V:</b> Guofeng Shen (Peking University), China Exploring internal and outdoor sources contributions to indoor air pollution using highly resolved temporal data	<b>IP:</b> Yunho Lee (GIST), Korea Occurrence, Removal and Risk Assessment of Organic Micropollutants in Wastewater Treatment Plants	<b>V:</b> Yoojin Choi (Chung-Ang University), Korea Biological synthesis of inorganic nanomaterials using microorganisms
		<b>IP:</b> Per Blomqvist (RISE), Sweden Emissions from Electric Vehicle Fires	<b>IP:</b> Windi Muziasari (University of Helsinki), Finland Antibiotic resistomes and microbiomes in the surface water along the Code River in Indonesia reflect drainage basin anthropogenic activities	<b>IP:</b> Mahfuzar Rahman (Pure Earth), Bangladesh Hidden crisis of Lead poisoning in Bangladesh
<b>IP:</b> Atar Singh Pipal (Dr Bhimrao Ambedkar University), India Exposures to fine particulate matter (PM2.5) and its effects on pre-term birth and related outcomes	<b>IP:</b> Injeong Kim (KITECH), Korea Development of method for estimating chemical emissions to the water environment from occupational use of consumer chemical products	<b>IP:</b> Sujung Lee (GIST), Korea Effects of Temperature on soil geochemical properties and heavy metals accumulation in Brassica Napus L		
<b>IP:</b> Jin-Ho Yoon (GIST), Korea Changes in fire weather climatology under warmer climate	<b>IP:</b> Lilyananda Reta Puspasari (GIST), Korea Machine Learning for Flood Prediction in Indonesia: Providing Online Access for Disaster Management Control	<b>IP:</b> Randy Novirsa (Universitas Andalas), Indonesia Potential methylmercury exposure of rice consumption and public health impacts in Indonesia		
1230	1330	<b>Lunch - Board of Directors AGM</b>		
		<b>Symposium 4: Persistent Organic Pollutants (PCB, dioxins)</b>	<b>Symposium 5: Emerging and re-emerging infectious diseases</b>	<b>Symposium 6: Hazardous waste remediation</b>
		Chair: <b>IP:</b> Rajendra Prasad (Technology-Patent.Com), India Co-Chair: <b>V:</b> Priyanka Agarwal (Dr BR Ambedkar University), India	Chair: <b>IP:</b> Zahir Islam (UQ), Aus Co-chair: <b>IP:</b> Syamsuar Manyullei (Universitas Hasanuddin), Indonesia	Chair: <b>IP:</b> Rengaraj Selvaraj (Sultan Qaboos University), Oman Co-chair: <b>IP:</b> In-Ho Yoon (KAERI), Korea
		<b>Speakers</b>		

1330	1500	<p><b>IP:</b> Aimin Chen, (UPenn), US <i>POP exposure in early life</i></p>	<p><b>IP:</b> Rebecca Carriere Christofferson (LSU), US <i>Climate change and emerging and re-emerging mosquito-borne viruses. In Emerging and re-emerging infectious diseases</i></p>	<p><b>IP:</b> In-Ho Yoon (Korea Atomic Energy Research Institute) <i>Radionuclide (Cesium) Behavior in Various Clays through using Adsorption, Desorption, and Spectroscopic analysis in decommissioning site of nuclear facilities</i></p>
		<p><b>V:</b> Atsuko Ikeda-Araki (Hokkaido University), Japan <i>Impact of environmental chemical exposure on childhood infections.</i></p>	<p><b>V:</b> Helen Mayfield (UQ), Aus <i>Using mosquitoes for surveillance of vector-borne diseases</i></p>	<p><b>IP:</b> Rengaraj Selvaraj (Sultan Qaboos University), Oman <i>Green 2D nanostructured materials for the degradation of hazardous waste present in water and wastewater</i></p>
		<p><b>V:</b> Priyanka Agarwal (Dr BR Ambedkar University), India <i>Prenatal exposure to polycyclic aromatic hydrocarbons (PAHS) and birth size</i></p>	<p><b>IP:</b> Syamsuar Manyullei (Universitas Hasanuddin), Indonesia <i>Is The Existence of Breeding Places and Cattle Pens A Risk Factor for The Incidence of Filariasis in Indonesia?</i></p>	<p><b>IP:</b> Rehnuma (Haque) Sarah (ICDDRDB), Bangladesh <i>Exposure to Lead and Risk of SARS-CoV-2 infection among Ready Made Garment (RMG) workers in Bangladesh</i></p>
		<p><b>IP:</b> S Rajamani (AIUEC), India <i>Remediation of mercury contaminated sensitive site and soil by adopting unique two stage process of water wash and retard</i></p>	<p><b>V:</b> Morgan Lemin (UQ), Aus <i>Environmental Factors Associated with Lymphatic Filariasis Infection in American Samoa: An Analysis to Enhance Current Surveillance and Elimination Strategies</i></p>	<p><b>IP:</b> Tahir Rafique (PCSIR), Pakistan <i>Assessment of High Nitrate Concentration in Soil of Thar Desert, Pakistan and its Removal from the Groundwater</i></p>

1500 1530 **Break**

1530	1700	<p><b>Poster session - Chairs:</b> <b>IP:</b> Michelle Heacock (NIEHS), US <b>IP:</b> Brittany Trottier (LSU), US</p>	
		<p><b>IP: Madhu Anand (Dr BR Ambedkar University), India:</b> <i>Persistent Organochlorine pesticides exposure and breast cancer among Indian women: a possible linkage</i></p>	
		<p><b>IP: Satbyul Estella Kim (University of Tsukuba), Japan:</b> <i>Ambient Particulate Air Pollution and Premature Mortality in Two Asian Megacities</i></p>	
		<p><b>IP: A.Muh. Faudzul Adziim (Universitas Hasanuddin), Indonesia :</b> <i>Sociodemographic factors and spatial analysis that contribute to the development of leprosy in coastal setting</i></p>	
		<p><b>IP: Mahabuba Afrin (Hiroshima University), Japan :</b> <i>Identifying determinants of multidrug-resistant tuberculosis in Bangladesh: A case-control study</i></p>	
		<p><b>IP: Huiho Jeong (Prefectural University of Kumamoto), Japan :</b> <i>Risk assessments of mercury on the past MSW (municipal solid waste) landfill forest soil in 2022</i></p>	
		<p><b>IP: Md Jiaur Rahman (Hiroshima University), Japan :</b> <i>Prevalence of asymptomatic urinary abnormalities among the school-going adolescents in the rural area of Bangladesh</i></p>	
		<p><b>IP: Md Moshir Rahman (Hiroshima University), Japan :</b> <i>Impact of the COVID-19 pandemic on child immunization in Bangladesh</i></p>	
		<p><b>IP: MD Marufur Roshid (Hiroshima University), Japan :</b> <i>Assessment of quality of life in cancer patients during the COVID-19 pandemic in Bangladesh</i></p>	
		<p><b>V: Laxmi Singh (Dr. Bhimrao Ambedkar University), India :</b> <i>Prenatal toxic metals exposure and risk of preterm birth: A study from AGRA region</i></p>	
		<p><b>IP: Al Richa Nasir (Tadulako University), Indonesia :</b> <i>Assessing the risk of deltamethrin and cadmium (Cd) on terrestrial species tenebrio molitor as model test</i></p>	
		<p><b>IP: Sangki Choi (GIST), Korea :</b> <i>Occurrence, removal and risk assessment of organic micropollutants in wastewater treatment plants in South Korea</i></p>	
		<p><b>IP: Nurullah Awal (WaterAid), Bangladesh :</b> <i>Community engaged child faeces management (CFM) reduced disease outbreak: experience from WaterAid in Bangladesh</i></p>	

1700 Student - faculty network session

Day 3: 31 August 2022

0800 0900 **Registration**

**Plenary 3: Health effects of plastics exposure across the life span [Minderoo Foundation Session]**  
Chair: **V:** Sarah Dunlop (Minderoo Foundation), Aus

0900	1030	<p>1. <b>V:</b> Sarah Dunlop (Minderoo Foundation), Aus (5 mins): <i>Overview</i></p> <p>2. <b>V:</b> Sarah Dunlop on behalf of Christos Symeonides (Minderoo Foundation), Aus (18 mins): <i>Plastic chemicals and human health</i></p> <p>3. <b>V:</b> Anne-Louise Ponsonby (Florey Institute), Aus (18 mins): <i>The Barwon Infant Study - plastic chemical exposure during pregnancy and children's brain health</i></p> <p>4. <b>IP:</b> Manuel Brunner (Minderoo Foundation), Aus (18 mins): <i>Redesign and alternatives to plastics</i></p> <p>5. <b>V:</b> Lizzie Fuller (Minderoo Foundation), Aus (18 mins): <i>Plastics and chemical regulation</i></p> <p>6. Questions and discussion (10 mins)</p>
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1030	1100	<b>Break</b>
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		<b>Symposium 7: Microplastics</b>	<b>Symposium 8: Environmental impacts on cancer</b>	<b>Symposium 9: Nutrition</b>
		Chair: <b>V:</b> Fujio Kayama, (Jichi Medical University), Japan Co-chair: <b>IP:</b> Ahmad Zaharin Aris (Universiti Putra), Malaysia	Chair: <b>V:</b> Dr. Satish Gopal. Director. (NCI,CGH) US	Chair: <b>V:</b> Antonio Pascale, (University of Montevideo), Uruguay Co-chair: <b>IP:</b> Reni Suhelmi (UMKT), Indonesia
		<b>Speakers</b>		
1100	1230	<p><b>IP:</b> Hasnawati Amqam (Universitas Hasanuddin), Indonesia <i>A number of microplastics detected in pregnant women's stool</i></p>	<p><b>V:</b> Satish Gopal (NCI), US: Opening Remarks – <i>Pollution in Asia and health effects challenges</i></p> <p><b>V:</b> Roel Vermeulen (Utrecht University), The Netherlands: <i>State of the science in exposure assessment methods for indoor and outdoor air pollution in Asia</i></p> <p><b>IP:</b> Qing Lan (NCI), US: <i>Household air pollution, epidemiology, genetic susceptibility, gene-environment interactions</i></p> <p><b>IP:</b> Nat Rothman (NCI), US: <i>Molecular epidemiology and mechanistic studies of lung cancer among never-smokers in Asia</i></p> <p><b>V:</b> Chao A. Hsiung (NHRI), Taiwan: <i>Etiologic research on lung cancer including indoor and/or outdoor air pollution, risk prediction in nonsmoking women in Taiwan</i></p> <p><b>IP:</b> Zuofeng Zhang (UCLA), US: <i>Studies of air pollution and health</i></p> <p><b>IP:</b> Kahung Chan (Oxford University), UK: <i>Indoor and outdoor air pollution and health effects in the China Kadoorie Biobank</i></p>	<p><b>IP:</b> Bernhard Hennig (University of Kentucky), US <i>Nutritional Modulation of Environmental Toxicity and Implications in Inflammatory Diseases</i></p>
		<p><b>IP:</b> Ahmad Zaharin Aris (Universiti Putra), Malaysia <i>The occurrence and potential courses of microplastics in the tropical coastal and estuarine ecosystems of Port Dickson and Klang River, Malaysia</i></p>	<p><b>IP:</b> Qing Lan (NCI, US), <b>IP:</b> Nat Rothman (NCI) US: <i>Closing remarks, opportunities for research collaborations</i></p>	<p><b>V:</b> Taslima Khatun (BUHS), Bangladesh <i>Healthy Eating Index Scores and Depression Associated among Non-Diabetic and Diabetic Cases in India</i></p>
		<p><b>IP:</b> Khadija Al Nabhani (UNSW), Aus <i>A temporal assessment of microplastics distribution on the beaches of three remote islands of the Yasawa Archipelago, Fiji</i></p>		<p><b>IP:</b> Reni Suhelmi (UMKT), Indonesia <i>Influences Analysis of Determinant Factors to helminthiasis and Nutritional Status in School Children thorough Sturctural Equation Modelling</i></p>

1230	1330	<b>Lunch</b>
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		<b>Plenary 4: The latest issues in climate change and their solutions</b>
		Chair: <b>IP:</b> Dr Suil Kang (GIST), Korea
		<b>Speakers</b>
1330	1500	<p>Mongolia: <b>IP:</b> Bolorma Oyuntsetseg (NUM), Mongolia: <i>Effect of soil properties and plant biomass on the health of przewalski's horses in Hustai National Park, Mongolia</i></p> <p>Vietnam: <b>IP:</b> Le Thai Ha (NIOEH), Vietnam: <i>Medical Wastes generation Coeficients in Vietnam</i></p> <p>Cambodia: <b>IP:</b> Seah Kah Yee (IERI), Korea: <i>Arsenic mass balance and its mobility in Mekong sub-region groundwater: case study of Kandal and Prey Veng province, Cambodia</i></p> <p>Thailand: <b>IP:</b> Penradee Changpiwat (Chulalongkorn University), Thailand: <i>Intergovernmental issue at Mekong river area</i></p> <p>Phillipines: <b>IP:</b> Mylene Gonzaga Cayetano (University of Phillipines Diliman), Phillipines: <i>Health Risk Assessment for Potentially Toxic Componants in the air and water media</i></p>

1500	1530	<b>Break</b>	
1530	1700	<b>Plenary 5: IERI and WHO CC for Vulnerable Population and Environmental Health</b>	
		Chair: <b>IP:</b> Hyenmi Chang (NIER), Korea	
		<b>IP:</b> Tak-soo Kim (NIER), Korea	<i>Study on the Characteristics of Health Monitoring of Humidifier Disinfectant Victims</i>
		<b>V:</b> Eun-Hee Ha (Ewha Womans University), Korea	<i>Current Research Progress and Future Plans of KoCHENS (Korean Children's Environmental Health Study)</i>
		<b>IP:</b> Johanna Wegerdt <b>IP:</b> Yi Jin Won (WHO Asia-Pacific Centre for Environment and Health in the Western Pacific Region)	<i>Climate Change in the Western Pacific Region</i>
<b>IP:</b> Paul Jagals (UQ, WHO Collaborating Centre for Children's Health and Environment)	<i>Healthy environments for healthy children - broadening our mental models.</i>		
1800		<b>Banquet</b>	
<b>Day 4: 01 September 2022</b>			
0800	0830	<b>Registration</b>	
0900	1030	<b>Student presentation session</b> : Chair - <b>IP:</b> Brittany Trottier (LSU), US	
		0900-0918: <b>IP:</b> M.M. Aeorangajab Al Hossain (Nagoya University Graduate School of Medicine), Japan	<i>Redistribution of potentially toxic elements in the hydrosphere after the relocation of a group of tanneries in Bangladesh</i>
		0918-0936: <b>IP:</b> Ulfi Hida Zainita (Universitas Indonesia), Indonesia	<i>Indonesian Adolescents Well-Being and Knowledge of Climate Change</i>
		0936-0954: <b>IP:</b> Chorney Eang (RUPP), Cambodia	<i>Chemical Upcycling of Polylactide (PLA) to Produce Electrospun Nanofibers with Super-Hydrophobicity for Oil/Water Separation and Oil Absorption Applications</i>
		0954-1012: <b>IP:</b> Anh.T.P Hoang (GIST), Korea	<i>Mitigation of arsenic accumulation in crop plants using biofertilizer</i>
		1012-1030: <b>V:</b> Himanshi Rohra (Savitribai Phule Pune University), India	<i>Exposure levels and toxicity implication of metal bound size-resolved PM in the Northern Indian Region</i>
1030	1100	<b>Break</b>	
1100	1230	<b>Plenary 6: Programs to ensure children's wellbeing</b>	
		Chair: <b>IP:</b> Peter Sly (UQ), Aus	
		<b>Speakers</b>	
		<b>V:</b> William Suk (NIEHS), US: <i>Collaborative Research: The e-Asia Program</i>	
		<b>V:</b> Samantha Thomas (Deakin University), Aus: <i>Protecting Children from gambling</i>	
<b>V:</b> Andrea Hinwood (UN Environment Program), Aus: <i>Environmental exposures in the Asia-Pacific region in a changing climate</i>			
<b>IP:</b> Peter Sly (UQ), Aus: <i>Threats to the health and wellbeing of children</i>			
1230	1330	<b>Closing Ceremony and Awards</b>	
1400	1800	<b>Field Trip</b>	