

Thursday, June 21

09:00 – 15:30	Workshops – Environmental exposure and epidemiology of air pollution and PM2.5		
	W1	Recent methodologies for looking at the health impact of Climate and Air Pollution (<i>Joel Schwartz</i>)	Lecture Hall 101
	W2	Application of micro-sensors and exposure modeling in personal and population exposure assessment and epidemiology (<i>Shih-Chun Candice Lung, Wen-Cheng Wang, Zhi Ning</i>) <i>Workshop 2 Practice</i>	Lecture Hall 201 Rm 209, Rm 210
(till 12:30)	W3	Graphing causality: Digging the directed Acyclic (<i>Chin-Chi Joseph Kuo</i>)	Rm 211

Friday, June 22

08:00 – 09:00	ISEE General Business Meeting (<i>Eunhee Ha , How-Ran Guo, Shu-Li Wang , Chang-Chuan Chan , Yue-Liang Leon Guo</i>) * Strategy for strengthening ISEE activities in Asia (<i>Eunhee Ha</i>) * ISEE AC by law (<i>Chang-Chuan Chan , How-Ran Guo</i>) * Increase numbers of ISEE members from Asia (<i>Shu-Li Wang , Chang-Chuan Chan</i>) Keynote 1 (<i>Chairs: Yue-Liang Leon Guo , Chang-Chuan Chan , Ho Kim</i>)		Rm 208
09:00-09:35	K1-1	Environmental factors affecting the health of our children in the 21st century Brenda Eskenazi, Director, Center for Environmental Research and Children's Health (CERCH), School of Public Health, UC Berkeley	Lecture Hall 101
09:35-10:10	K1-2	From science to policy: environmental epidemiology for protection of human health Guy Marks, Director, Pulmonology, Woolcock Institute of Medical Research, Sydney University	
10:10-10:45	K1-3	Advances in exposure assessment of air pollution and PM2.5 Satoshi Nakai, President, ISES East Asia Chapter, Professor, Yokohama National University, Japan Keynote 2 (<i>Chairs: Saou-Hsing Liou , Chang-Chuan Chan , Yue-Liang Leon Guo</i>)	Lecture Hall 101
11:00-11:35	K2-1	Using epidemiology to address community environmental health issues Edward A. Emmett, Professor, Occupational Medicine, University of Pennsylvania	
11:35-12:10	K2-2	Exposure to trace metals and adverse health effects of mining in the DR Congo Ben Nemery de Bellevaux, Professor, Toxicology and Occupational Medicine, Centre for Environment and Health, Department of Public Health and Primary Care, KU Leuven	
12:10-12:35	K2-3	Air pollution and PM2.5 in urban areas: sources and receptors Chang-fu Wu, Professor, Institute of Environmental Health, National Taiwan University, Taiwan	
14:00 – 15:30	S1 PM and VOC quality monitoring technology for exposure assessment (<i>Chairs: Leo Wang , Chia-Yang Chen</i>)		Lecture Hall 101
Parallel Sessions	S1-1	Application of IoT on indoor air quality monitoring Prof. Kiyoun Lee	
	S1-2	Smart particulate matter monitoring in subway system Duckshin PARK, Professor, Transportation Environmental Research Team, Korea Railroad Research Institute, Uiwang City, South Korea	

S1-3 **Integrated method of combining fixed and mobile stations for air pollution tracking and reduction assessment**

Tzu-Hao Kuo , Professor, Sinotech Engineering Services, Ltd., Taiwan

S1-4 **Field study on online monitoring network of air toxics and tracking near a petrochemical industrial Park**

Chin-Yu Hsu, Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan

S2 Air pollution in Southeast Asia: research gaps and priorities in the region (Chair: Kayo Ueda, Chris Fook Sheng Ng)

Lecture Hall 201

S2-1 **Climate change and air pollution: Health impacts and challenges in Indonesia.**

Budi Haryanto, Professor, Department of Environmental Health, Faculty of Public Health, University of Indonesia, Research Center for Climate Change University of Indonesia

S2-2 **Air pollution, haze and health risk: Current and future research agenda for Malaysia**

Mazrura Sahani, Professor, Centre for Health and Applied Sciences, Faculty of Health Sciences, Universiti Kebangsaan Malaysia Jalan Raja Muda Abdul Aziz, 50300, , Kuala Lumpur, Malaysia

S2-3 **Public utility vehicle modernization program in the Philippines: a health impact assessment study**

Xerxes Seposo, Professor, Environmental Health Division, Department of Environmental Engineering, Graduate School of Engineering, Kyoto University

S2-4 **Air pollution and health in Vietnam: research updates and challenges**

Tran Ngoc Dang, Professor, Department of Environmental Health, Faculty of Public Health, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Vietnam

S2-5 **Health effect of air pollution in Thailand: Recent research development and challenges**

Arthit Phosri, Professor, Department of Environmental Engineering, Graduate School of Engineering, Kyoto University, Japan

O1 Climate change (Chairs: Shih-Chun Lung, Satoshi Nakai)

Rm 215

O1-1 **The effects of climate and air pollution on people with chronic lung disease in Australia**

Luke Knibbs, Assistant Professor, School Of Public Health, The University of Queensland

O1-2 **Climate change and temperature rise: Implications on food poisoning cases in Malaysia**

Noor Artika Hassan, International Islamic University Malaysia

O1-3 **Ambient temperature and cardiovascular biomarkers in a panel of healthy adults**

Shaowei Wu, Associate Professor, Department of Occupational and Environmental Health Sciences, School of Public Health, Peking University

O1-4 **Drought and distress by age, gender and farming: findings from southeastern Australia**

Ivan Hanigan, Research Fellow, School of Public Health, University of Sydney

O2 Inorganic pollutant (Chairs: How-Ran Guo, Benoit Nemery de Bellevaux)

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- O2-1 **Arsenic exposure from rice among a cohort of adolescents in Kunming, China**
Noelle Liao, Department of Preventive Medicine, University of Southern California
- O2-2 **Assessment of heavy metal concentrations in road dusts around the city of Kuala Lumpur**
Muhammad Ikram Bin A Wahab, Lecturer, Faculty of Health Sciences, Universiti Kebangsaan Malaysia
- O2-3 **Environmental health risk assessment of heavy metal in soil in a primary school exposed to mining activities**
Nur Azalina Suzianti Feisal, Environmental and Occupational Health, Universiti Putra Malaysia
- O2-4 **Relationship of co-exposure to urinary chromium, cobalt, cadmium, lead and microalbumin in young Taiwanese: Taiwan Environmental Survey for Toxicants (TESTs)**
Kai-Wei Liao, Research Fellow, National Institute of Environmental Health Sciences, National Health Research Institutes
- O2-5 **DNA methylation as a link between environmental exposures and diseases**
Wilfried Karmaus, Professor, Epidemiology, Biostatistics, and Environmental Health, University of Memphis
- O2-6 **Arsenic, DNA damage and cancer of kidney and bladder: long-term follow-up of residents in arseniasis endemic area of north-eastern Taiwan**
Tsung-Lin Tsai, Research Fellow, National Institute of Environmental Health Sciences, National Health Research Institutes

O3 Birth cohort (Chairs: Brenda Eskenazi , Machiko Minatoya)

Rm 213

- O3-1 **Prenatal exposure to antibiotics and risk of childhood obesity in a multi-center cohort study**
Jun Zhang, Professor, Ministry of Education-Shanghai Key Laboratory of Children's Environmental Health, Xinhua Hospital. Shanghai Jiao Tong University School of Medicine
- O3-2 **Cord serum concentrations of perfluoroalkyl substances and BMI changes from 1 to 50 months of age: HBC Study**
Takanobu Horikoshi, Research Center for Child Mental Development, Hamamatsu University School of Medicine
- O3-3 **Relationship between residue levels of PCBs, p, p'-DDE, PBDEs and trace elements in maternal and umbilical cord serum from Chiba, Japan**
Akifumi Eguchi, Assistant Professor, Center for Preventive Medical Sciences, Chiba University

16:00 – 16:20 **Opening** [Beate Ritz , Satoshi Nakai , Chang-Chuan Chan , Paloma Beamer (ISES video)] **Lecture Hall 101**

Opening keynote (Chairs: Beate Ritz , Chang-Chuan Chan , Kiyoung Lee) **Lecture Hall 101**

- 16:20 - 16:55 OK-1 **Current situation and future development of children's environmental Health**
Ruth Etzel, Director, Office of Children's Health Protection, US EPA
- 16:55 - 17:30 OK-2 **Changing environment and proposed strategies for future generation health**

Yueliang Leon Guo, Distinguished Investigator and Director, National Institute of Environmental Health Science, National Health Research Institutes

17:30 - 18:05

OK-3

Climate change and the health impact - a global perspective

Joel Schwartz, Professor, School of Public Health, Harvard University

Keynote 3 (Chairs: *Chun-Yuh Yang , Jun Jim Zhang*)

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| 09:00 – 09:35 | K3-1 | Two decades of research on air pollution and reproductive outcomes: What do we know and is there more to be done?
Beate R. Ritz, Professor/ISEE councilor. Department of Epidemiology, School of Public Health UCLA | Lecture Hall 101 |
| 09:35 – 10:10 | K3-2 | Regional status and suggested strategy - research or policy for Asia-Pacific region
Yun-Chul Hong, Professor, Seoul National University | |
| 10:10 – 10:30 | K3-3 | Public health study in petrochemical complex: An exposure and epidemiology approach
Chang-Chuan Chan, Dean, School of Public Health, National Taiwan University | |

Keynote 4 (chairs: *Chao A Hsiung , Budi Haryanto*)

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| 11:00 – 11:30 | K4-1 | Factors shaping the human exposome in the built environment
Linsey Marr, Professor, Department of Civil and Environmental Engineering, Institute for Critical Technology and Applied Science, Virginia Tech | Lecture Hall 101 |
| 11:30 – 12:00 | K4-2 | Healthy city built environment
Bin Jalaludin, Director Epidemiology Group, Healthy People and Places Unit Population Health, Sydney South West Area Health Service | |
| 12:00 – 12:30 | K4-3 | Suicide Methods Used by Adolescents: The roles of environment accessibility and social learning
Chung-Yi Li, Professor, Department of Public Health, College of Medicine National Cheng Kung University | |

14:00 – 15:30	S3 Prenatal air pollution and neurodevelopment in children (Chairs: <i>Joel Schwartz , Pen-Hua Su</i>)	Lecture Hall 101
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Parallel Sessions

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| S3-1 | Traffic related air pollution and autism in Denmark
Beate Ritz, Professor, Fielding School of Public Health, UCLA, Los Angeles, USA |
| S3-2 | Environmental tobacco smoke exposure and infant neurodevelopment parameters at eighteen months: Results from Taiwan Birth Cohort Study
Pau-Chung Chen (Speaker: Chihfu Wei), Professor, Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University, Taipei, Taiwan and Department of Environmental and Occupational Medicine, National Taiwan University Hospital, Taipei, Taiwan |
| S3-3 | Prenatal exposure to PM10 and NO2 and children's neurodevelopment from birth to 24 months of age: Mothers and Children's Environmental Health (MOCEH) study
Eun Hee Ha, Professor, Department of Occupational and Environmental Medicine, Ewha Womans University Mokdong Hospital, Seoul, South Korea |
| S3-4 | Prenatal exposure to outdoor air pollution and child behavioral problems at school age in Japan
Takashi Yorifuji |
| S3-5 | Effects of prenatal and childhood ambient air pollution exposure on childhood mental and behavioral development |

in Taiwan

Pei-Chen Lee

S4 Build Environment and health promotion (Chairs: Linsey Marr , Chung-Yi Li)

Lecture Hall 201

- S4-1 **Make Taitung a healthy and livable city**
Justin Huang
- S4-2 **The development and achievement of a healthy cities network in Taiwan: sharing leadership and partnership building**
Hsien-Wen Kuo
- S4-3 **Accessible tourism as leisure and wheezing service for health promotion for the disabled, the elderly and care givers**
Chong-Wey Lin, Professor, Founder & CEO, OurCityLove Social Enterprise Taiwan / President, Association for Smart-Living and Service-Design Taiwan, ASTS Taiwan
- S4-4 **The trajectory of Taipei healthy city**
Hung-En Liao, Professor, Department of Healthcare Administration, Asia University, Taiwan

O4 Geocoding and analysis technique of air pollution and PM2.5

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(Chairs: Kai-Jen Chuang , Manasawee Thongsringklee)

- O4-1 **Cytotoxicity of TSP and PM2.5 in ambient air near elementary schools in Southern Taiwan**
How-Ran Chao, Professor, Department of Environmental Science and Engineering, National Pingtung University of Science and Technology
- O4-2 **Using artificial neural network in predicting Plasmodium knowlesi susceptibility area in Sabah, Malaysia**
Siti Aisah Mokhtar, Department of community health, Universiti Kebangsaan Malaysia
- O4-3 **Integrating 3-km resolution AOD with meteorological parameters and land use data to refine satellite-based PM2.5 estimation model across Taiwan**
Chi-Min Wang, Department of Occupational Safety and Health, China Medical University
- O4-4 **Exploring spatial and temporal variation of barcode and knockdown resistance genes in Anopheles coluzzii in Democratic Republic of Sao Tome and Principe**
Ying An Chen, Environmental Health, National Taiwan University

O5 Occupational health (Chairs: Hung-Yi Chuang , Chih-Hong Pan)

Rm 211

- O5-1 **Low lead exposure and health effects among communication radio-repair workers, Thailand**
Manasawee Thongsringklee, College of Public Health Sciences, Chulalongkorn University
- O5-2 **Estimating work-related cerebro- and cardiovascular disease burden attributed to long working hours: A population-based study of Taiwan**
Hsi-Chen Liu, Institute of Health Policy and Management, National Taiwan University
- O5-3 **Occupational noise, salivary cortisol and the incidence of cardiovascular disease: A prospective cohort study**

- Ta-Yuan Chang, Professor, Department of Occupational Safety and Health, China Medical University
- 05-4 **Estimating disease burdens and healthcare costs of COPD attributable to occupational exposure to vapors, gas, dusts and fumes in Taiwan**
Chung-Yen Chen, Institute of Health Policy and Management, National Taiwan University
- 05-5 **Estimating disease burdens and healthcare costs of work-related asthma in Taiwan: application of a job exposure matrix**
Chung-Yen Chen, Institute of Health Policy and Management, National Taiwan University
- 05-6 **Analysis of volatile organic compounds to detect cytotoxicity of quartz on human alveolar cells: a cell breath study**
Hsin-Yi Peng, Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University

O6 Life style (Chairs: *Kenji Tsuchiya* , *Pinpin Lin*)

Rm 212

- 06-1 **Association of tea drinking and dysmenorrhea in China**
Jun Zhang, Professor, Ministry of Education-Shanghai Key Laboratory of Children's Environmental Health, Xinhua Hospital, Shanghai Jiao Tong University School of Medicine
- 06-2 **Children's preservatives exposure estimates of modelling clays and slimes use in Korea**
Ji Young Park, Research Fellow, Institute of Health and Environment, Seoul National University
- 06-3 **Long-term nitrogen dioxide exposure, asthma, and lung function in Australian children**
Luke Knibbs, Assistant Professor, School Of Public Health, The University of Queensland
- 06-4 **Risk assessment of methylmercury based on internal exposure and fish and seafood consumption estimates in Taiwanese children**
Shu-Han You, Assistant Professor, Institute of Food Safety and Risk Management, National Taiwan Ocean University
- 06-5 **Urinary melamine levels and microalbuminuria in Taiwanese children and adolescents: Taiwan Environmental Survey for Toxicants (TESTs)**
Chia-Fang Wu, Assistant Professor, Research Center for Environmental Medicine, Kaohsiung Medical University

O7 Organic pollutant - Endocrine effect (Chair: *Hong YC, Ming-Tsang Wu*)

Rm 213

- 07-1 **The association between perchlorate exposure and thyroid function in pregnant women**
Yu-Ping Fu, Department of Environmental and Occupational Health, National Cheng Kung University
- 07-2 **The associations between diabetic severity and risk of cancer**
Yaohsien Tseng, Department of Public Health, Institute of Occupational Medicine and Industrial Hygiene
- 07-3 **Correlations between phthalates exposure and kidney function in the general Taiwanese: Results from Taiwan Environmental Survey for Toxicants (TESTs)**

Jung-Wei Chang, Assistant Professor, Institute of Environmental and Occupational Health Sciences, National Yang-Ming University

O7-4 **Benchmark dose for prenatal exposure to Di(2-ethylhexyl) phthalate and behavioral problems in children:**

Recommendation for a lowered level for pregnant women

Chu-Chih Chen, Professor, Institute of Population Health Sciences, National Health Research Institutes

O7-5 **Persistent organic pollutants exposure and its association with bone density and bone metabolism markers in Japanese farmwomen**

Cimi Ilmiawati, Lecturer, Pharmacology, Faculty of Medicine Andalas University

16:00 – 17:30

Parallel Sessions

S5 Climate impacts on human health: estimation, prediction and projection (Chairs: *Yue-Liang Leon Guo, Ho Kim*)

Lecture Hall 101

S5-1 **Projecting future temperature-related mortality due to climate change**

Jae-Young Lee

S5-2 **Developing weather-based predicting model for dengue fever outbreaks in Solomon Islands**

Aussie Tahta Maharani, Professor, Department of Environmental Engineering, Chung Yuan Christian University, Taoyuan Taiwan

S5-3 **Long-term exposure to temperature associated with the incidence of major depressive disorder**

Nai-Tzu Chen, Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli County, Taiwan

S5-4 **Association between extreme ambient temperature and occupational injury**

Shin-Chun Pan, Professor, Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, National Taiwan University, Taipei, Taiwan

S5-5 **Landscape fire-related air pollution and mortality in a Southeast Asian city: health risk assessment using fire data from remote sensing**

Chris Fook Sheng Ng, Professor, Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan

S5-6 **Efficiency of local decision making units in addressing temperature-related risks in the Philippines**

Xerxes T. Seposo, Professor, Environmental Health Division, Department of Environmental Engineering, Graduate School of Engineering, Kyoto University

S6 Progress of Birth Cohort Consortium in Asia (BiCCA) (Chair: *Reiko Kishi, Jun Jim Zhang*)

Lecture Hall 201

S6-1 **Birth cohorts in Asia: The importance, advantages, and disadvantages of different-sized cohorts**

Reiko Kishi, Professor, Center for Environmental and Health Sciences, Hokkaido University, Sapporo, Japan

S6-2 **The ShangHai Birth Cohort**

Jun-Jim Zhang, Professor, Shanghai Key Laboratory of

- Children's Environmental Health Shanghai Jiao Tong University School of Medicine Shanghai, China
- S6-3 **Mothers and children's environmental health (MOCEH) study in Korea**
Sang-Hyuk Bae, Professor, Department of Preventive Medicine, College of Medicine, Dankook University, Cheonan, Korea
- S6-4 **The Taiwan Birth Panel Study**
Pau-Chung Chen, Professor, Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei, Taiwan; Department of Environmental and Occupational Medicine, National Taiwan University College of Medicine and Hospital, Taipei, Taiwan; Department of Public Health, National Taiwan University College of Public Health, Taipei, Taiwan
- S6-5 **Hamamatsu Birth Cohort for Mothers and Children (HBC Study): Our mission and current status**
Kenji J. Tsuchiya, Professor, Hamamatsu University School of Medicine, Research Center for Child Mental Development, Hamamatsu, Japan
- S6-6 **Cohort overview: Project Jeebon**
Pi-I Lin
- S6-7 **Taiwan Maternal and Infant Cohort Study (TMICS)**
Shu-Li Wang, Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan
- S6-8 **Overview of Taiwan Early-life Cohort Study (TEC)**
Hui-Ju Wen, Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan

O8 Indoor air pollution and PM2.5 (Chairs: Han-Bin Huang , Chih-Hong Pan)

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- O8-1 **Investigation of PBDEs and PBDD/Fs levels in air-conditioning filter dust from nursing homes in southern Taiwan**
How-Ran Chao, Professor, Department of Environmental Science and Engineering, National Pingtung University of Science and Technology
- O8-2 **DNA metabarcoding to assess airborne fungal communities**
Nicholas Minahan, Institute of Environmental Health, National Taiwan University
- O8-3 **Oxidative Stress Effects on Semiconductor Workers of Exposure to Arsenic**
Chih-Hong Pan, Institute of Labor, Occupational Safety and Health, Ministry of Labor, New Taipei City, Taiwan.
- O8-4 **Application of time activity pattern and microenvironmental PM concentrations to determine population exposure in Korea**
Kiyong Lee, Professor, Graduate School of Public Health, Seoul National University

O9 Built environment (Chairs: Lih-Ming Yiin , Bin Jalaludin)

Rm 212

- O9-1 **Does green space quantity or quality matter more for mental wellbeing trajectories in childhood? Findings from a multilevel longitudinal study**
Xiaoqi Feng, Associate Professor, Population Wellbeing and Environment Research Lab (PowerLab), University of Wollongong
- O9-2 **Is the risk of developing Alzheimer's disease higher in rural areas? Multilevel discrete-time event history analysis of a cohort of 261,669 Australians aged 45 years and older tracked over 11 years**
Thomas Astell-Burt, Associate Professor, Population Wellbeing and Environment Research Lab (PowerLab), University of Wollongong
- O9-3 **Health effects of unawareness to green scenes in urban environments**
Chun-Yen Chang, Professor, Department of Horticulture and Landscape Architecture, National Taiwan University
- O9-4 **Validity of Using Stoffenmanager® Exposure Modeling Tool in Taiwanese Companies**
Shao-Zu Huang, Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University
- O9-5 **How is environmental greenness related to students' academic performance in English and Mathematics?**
Chih-Da John Wu, Associate Professor, Department of Forestry and Natural Resources, National Chiayi University

Sunday, June 24

	Keynote 5 (Chairs: Reiko Kishi, Shau-Ku Huang)	
09:00 – 09:35	K5-1 Can we decide our future? Topics of projection studies in climate change and health Ho Kim, Dean of School of Public Health, Seoul National University	Lecture Hall 101
09:35 – 09:55	K5-2 Is prenatal exposure a life-long fate? Early life environmental factors and later health outcomes Shu-Li Julie Wang, Investigator, National Institute of Environmental Health Sciences, National Health Research Institutes	
09:55 – 10:30	K5-3 Epigenetic studies in environmental health sciences - current status and future perspectives Wilfried J.J. Karmaus, Professor, The University of Memphis	
11:00 – 12:30	S7 New emerging hazards of air pollution and PM2.5 to health effects (Chairs: Ta-Yuan Chang, Tran Ngoc Dang)	Lecture Hall 101
	Parallel Sessions	
	S7-1 Is fine particulate matter a risk factor for metabolic syndrome? Seulbi Lee, Professor, Department of Medical Science, College of Medicine, Ewha Womans University, Seoul, South Korea	
	S7-2 Fine particulate matter and hypothyroidism Shinhee Ye, Professor, Department of environmental and occupational medicine, School of Medicine, Ewha Womans University, Seoul, Republic of Korea	
	S7-3 The effect of air pollution on the incidence of tuberculosis among adult Jiyoung Shin, Professor, Public Health, Department of Occupational and Environmental Medicine, College of Medicine, Ewha Womans University, Seoul, South Korea	
	S7-4 Effect of traffic related air pollution on childhood neurodevelopment at 5 years of age Ji-Young Lee, Professor, Department of environmental and occupational medicine, School of Medicine, Ewha Womans University, Seoul, Republic of Korea	
	RHICOH 1 S8 Reproductive hazards in the workplace in Japan and Korea	Lecture Hall 201
	S8-1 Legislation on maternity protection at work and classification of reproductive Hazards in Japan Yosuke Miyazaki, Research Associate, Centre for Stress-related Disease Control and Prevention (CSDC), University of Occupational and Environmental Health, Japan (UOEH)	
	S8-2 Prevalence of abortion and adverse pregnancy outcomes among working women in Korea Chulyong Park, Professor, Department of Occupational and Environmental Medicine, Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Republic of Korea	
	O10 Neurobehavioral effect (Chair: Yaw-Huei Hwang, Atsuko Araki)	Rm 215
	O10-1 Antenatal exposure of heavy metals and birth sizes, neurobehavioral examination of newborns lived in the residents of petrochemical complex in Taiwan	

Cheng-Hsien Tsai, Pediatrics, National Taiwan University
Hospital Yunlin branch

O10-2 **Prenatal exposure to perfluorinated alkyl substances and behavioral and coordination development of children at preschool age: the Hokkaido Study on Environment and Children's Health**

Machiko Minatoya, Assistant Professor, Center for Environmental and Health Sciences, Hokkaido University

O10-3 **Prenatal and childhood exposure to phthalate diesters and neurobehavioral development in a 15-year follow-up birth cohort study: Taiwan Maternal and Infant Cohort Study**

Han-Bin Huang, Assistant Professor, School of Publish Health, National Defense Medical Center

O10-4 **Chronic prenatal exposure to endocrine disrupter DEHP causes neuron dislocation and learning deficiency in newborn rats**

Ming-Wei Chao, Professor, Chung Yuan Christian University, Department of Bioscience Technology

O11 Environmental and genetic interaction (Chairs: I-Shou Chang, Wei Jie Seow)

Rm 211

O11-1 **Prenatal trace elements in cord blood, DNA methylation of imprinted genes and child birth outcomes**

Mei-Sheng Ku, Environmental health, College of Public Health, National Taiwan University

O11-2 **Identification of novel miRNA biomarkers for exposure to BPS in male zebrafish (Danio rerio)**

Jiyun Lee, Yongin University

O11-3 **Interactive effect of bisphenol A (BPA) exposure with genetic variants in ESR1, and ESR2 genes on the risk of endometriosis**

Xiaodan Yu, Professor, Department of Developmental and Behavioral Pediatrics, Shanghai Children's Medical Center

O11-4 **Associations of certain genetic polymorphisms and arsenic exposure with bladder cancer**

Ya-Yun Cheng, Research Fellow, Department of Environmental and Occupational Health, National Cheng Kung University

12:30 – 14:00 **S9 Reproductive hazards in the workplace and environment**
RHICOH 2

Lecture Hall 201

S9-1 **Risk assessments for pregnant workers in a workplace : A Taiwan Experience**

Yu-Cheng Lin, Director, Department of Occupational Medicine, Fu Jen Catholic University Hospital; Assistant Professor, Fu Jen Catholic University School of Medicine

S9-2 **Protect the future: laws and practices on maternity protection at work in Taiwan**

Sherri Shih-Fan Yeh

14:00 – 15:30 **S10 Prenatal phthalate exposure and different health effects in Taiwan and Bangladesh** (Chairs: Chen-Yang Shen, Wilfried Karmaus)
Parallel Sessions

Lecture Hall 101

S10-1 **Overview of study design and method on Taiwan Maternal and Infant Cohort Study (TMICS): Current status and future perspectives**

- Ming-Tsang Wu, Professor, Research Center for Environmental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- S10-2 **Exposure determinants of phthalates among pregnant women in Taiwan**
- Chia-Jung Hsieh, Professor, Department of Public Health, Tzu Chi University, Hualien, Taiwan
- S10-3 **Prenatal phthalate exposure and birth outcomes: a Nationwide survey by Taiwan Maternal and Infant Cohort Study (TMICS)**
- Mei-Lien Chen, Professor, Institute of Environmental and Occupational Health Sciences, College of Medicine, National Yang Ming University, Taipei, Taiwan
- S10-4 **Prenatal phthalate exposure and the sex steroid hormones in a nationwide birth cohort**
- Shu-Li Wang (Speaker: Prof. Chin-Li Lu), Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan
- S10-5 **Air pollution during pregnancy and allergic sensitization at Birth**
- Pei-Jen Lee, Professor, College of Health Technology, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
- S10-6 **Phthalate exposure among pregnant women in Project Jeebon--A Prospective birth cohort in Bangladesh**
- Pi-I Lin, Professor, Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Healthcare Institute, Boston, USA

RHICOH 3 S11 Reproductive hazards in the workplace and environment (RHICOH) 3 (Chairs: Atsuko Araki, Po-Chin Huang)

Lecture Hall 201

- S11-1 **Effect of ambient fine particles, extreme temperatures and the interactions on preterm birth**
- Yixue Li, Professor, Department of Occupational and Environmental Health, School of Public Health, Peking University, Beijing, 100191, China
- S11-2 **Risk for recurrent spontaneous abortion in relation to phthalates exposure in Taiwanese reproductive-aged Women: A case-control study**
- Po-Chin Huang, Professor, National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan; Research Center for Environmental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- S11-3 **Association between organochlorine pesticide levels in Taiwanese breast milk and their reproductive effects**
- How-Ran Chao, Professor, National Pingtung University of Science and Technology, Pingtung, Taiwan
- S11-4 **Organophosphate flame retardants in housedust and their association with school children's asthma and allergies**
- Atsuko Araki

S12 Children's exposure science to support children's environmental health research (Chair: Chang-Chuan Chan, Shoji Nakayama)

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- S12-1 **Children's specific exposure factors, how are they derived,**

what are the data gap?

Xiaoli Duan

- S12-2 **Children's exposure measurements for birth cohort studies**
Suejin Kim, Professor, Environmental Health Research Division,
National Institute of Environmental Research, Ministry
of Environment, Incheon, Korea
- S12-3 **Pesticides exposure measurements using urine samples from
infants**
Yuki Ito, Professor, Department of Occupational and
Environmental Health, Nagoya City University Graduate School
of Medical Sciences, Japan
- S12-4 **The exposomics approach to explore children's health effects
in the vicinity of a petrochemical complex**
Tzu-Hsuen Yuan, Professor, College of Public Health, National
Taiwan University, Taipei, Taiwan

O12 Epidemiology of Air pollution and PM2.5 (Chair: Ching-Huang Lai,
Yoko Nomura)

Rm 211

- O12-1 **Characterization and health risk assessment of exposure to
volatile organic compounds in the region of an integrated
circuit assembly and testing company**
Nyambose Chemalora Sakala, Professor, Department of
Occupational Safety and Health, China Medical University
- O12-2 **Mortality burden attributable to PM2.5 emitted from coal-
fired power supplies in Taiwan**
Chia-Pin Chio, Assistant Professor, Institute of Occupational
Medicine and Industrial Hygiene, National Taiwan University
- O12-3 **National geographic ecological association between
particulate matter 2.5 air pollution and risk of cardiovascular
disease and cancer mortality in the United States: Findings
from the Location and Outcomes Study**
Longjian Liu, Associate Professor, Epidemiology and Biostatistic,
Drexel University
- O12-4 **Association between exposure to PM2.5 and O3 and the risk
of Uterine Fibroids**
Chia-Ying Lin, Occupational Safety and Health, China Medical
University

O13 Policy suggestion (Chairs: Yu-Cheng Chen, Shih-Wei Tsai)

Rm 212

- O13-1 **Volatile organic compounds (VOC), formaldehyde and
nitrogen dioxide (NO2) in schools in Johor Bahru, Malaysia:
Associations with rhinitis, ocular, throat and dermal
symptoms, headache and fatigue**
Jamal Hisham Hashim, Professor, International Institute for
Global Health, United Nations University (speaker: Zailina
Hashim)
- O13-2 **The risk-based air quality health index (AQHI) on morbidity
and mortality for Taiwanese population: development and
validation**
Mu-Jean Chen, National Institute of Environmental Health
Sciences, National Health Research Institutes

	O13-3	Asbestos ban policy and a bibliometric analysis of asbestos-related diseases research gap: A global perspective Ro-Ting Lin, Assistant Professor, College of Public Health, China Medical University	
	O13-4	Portable device use by three-year-old children and the mother-child relationship Midori Yamamoto, Assistant Professor, Center for Preventive Medical Sciences, Chiba University	
		Keynote 6 (<i>Chairs: Chang-Chuan Chan, Satoshi Nakai, Beate Ritz</i>)	
16:00 - 16:25	K6-1	Health impacts of climate change in Southeast Asia Jamal Hisham Hashim, Director, Provenue Corporation Sdn Bhd, Visiting Professor, United Nations University-International Institute for Global Health Kuala Lumpur, Malaysia	Lecture Hall 101
16:25 - 16:50	K6-2	Prediction of indoor air quality and personal exposure for environmental health service Kiyoung Lee, Professor, Department of Environmental Health, Graduate School of Public Health, Seoul National University	
16:50 - 17:15	K6-3	What can we learn from the toxicity study of ambient particles? Tsun-Jen Cheng, Professor, Institute of Occupational Medicine and Industrial Hygiene, College of Public health, National Taiwan University	
17:15 - 17:30		All speakers and chairs on the stage for discussions	