

2021 年亞洲室內環境品質、健康防疫與智慧生活研討會

2021 Conference on Indoor Environmental Quality, Health, Infection Prevention and Intelligent Living in Asia (Agenda)

國立成功大學，台南 台灣 National Cheng Kung University, Tainan, Taiwan

3 June 2021, Thursday				
Time	Program		Chair	Location
0830-0900	Registration			TSIEQ2021.ORG
0900-0930	Opening Ceremony		Prof./ President Hsiu-Ling Chen (陳秀玲教授)	On line [Cisco Webex]
0930-1000	Keynote Speech I	<i>Envisioning the role of indoor air quality in the post COVID-19 era</i> (Taiwan) Prof./ President Huey-Jen Su Department of Environmental and Occupational Health, National Cheng Kung University/ National Cheng Kung University	Prof. Ching-Chang Lee (李俊璋教授)	On line [Cisco Webex]
1000-1030	Keynote Speech II	<i>Human Biomonitoring of Indoor Chemicals via Skin Gas Analysis</i> (Japan) Prof. Yoshika Sekine Department of Chemistry, Tokai University	Prof. Ching-Chang Lee (李俊璋教授)	On line [Cisco Webex]
1030-1100	Break Time / POST			
1100-1130	Keynote Speech III	<i>Mitigating indoor expiratory pathogen transmission: environmental and personal intervention measures</i> (Singapore) Prof. Kwok Wai Tham Department of Building / School of Design and Environment, National University of Singapore	Prof. Meng- Chieh, Jeffrey Lee (李孟杰教授)	On line [Cisco Webex]
1130-1200	Keynote Speech IV	<i>How to ventilate buildings for COVID-19</i> (Hong Kong) Prof. Yuguo Li Department of Mechanical Engineering, The University of Hong Kong	Prof. Yen-Yi Li (李彥頤教授)	On line [Cisco Webex]
1200-1320	Break Time			
1320-1420	Plenary Session	A-1	Characteristics of indoor pollutants and its sources	Video
			The Indoor Air Quality Management Technology Using Pollution Map and Hotspot Methodology Chun-Kai Huang、Jia-Syuan Jhuo、Chao-Heng Tseng	

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			<p>室內 PM2.5 污染源的穩定碳與氮同位素特徵 許自宏, 蘇慧貞, 陳乃慈, 榮建誠</p> <p>Effects of the COVID-19 outbreak on the distribution of ambient PM2.5 concentrations in areas that were not locked down Suz-Han Lien, Yi-Chyun Hsu, How-Ran Chao, Suz-Han Lien, Kai-Wei Chien, Che-Yu Chen</p> <p>產後居住家護空間室內空氣品質調查之研究 -北部地區為例 陳韋謙, 陳振誠, 李高賜, 王信富</p> <p>學齡兒童居家環境揮發性有機物特徵與濃度變異 顏昱娟, 古俊宏, 徐瑋廷, 姚宗杰, 陳裕政</p>	
	Technology Symposium on Home appliances	T-1	<p>室內環境品質健康危害因子探討及健康促進研究 林瑜雯</p> <p>北區民眾活動模式調查及特定公共場所之室內懸浮微粒與揮發性有機物影響評估 唐進勝</p> <p>室內空氣汙染及特定公共場所空氣品質與肺部疾病及肺癌健康促進計畫 許光宏</p> <p>兒童所處之室內外其 PM2.5 及重金屬成分的分析探討 林澤聖</p> <p>居家環境空氣污染物對幼兒過敏性疾病發展之流行病學探討與健康促進推廣 王淑麗</p> <p>高雄市居家室內空氣品質與新生兒呼吸道症狀之追蹤研究 陳培詩</p> <p>室內烹調油煙危害暴露與控制方式之探討 張振平</p>	Video
1420-1520	Plenary Session	A-2	<p>Risks assessment & prevention of indoor environment on health issue</p> <p>Evaluating the CO2 and PM improvement of Fresh Air System in elementary school classrooms with a mass balance model Hsiang-Shun Wang , Cheng-En Lee , Chao-Heng Tseng</p>	Video

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			Exposure to phthalates from home dusts among infertile women and its influence on in vitro fertilization Pei-Hua Hsu, Chia-Wei Lee	
			夜市對附近家戶室內空氣品質與健康之影響 林珮蓁, 林冠婷, 陳好涵, 張竣閔, 姚廷靜, 林淵淙	
			家戶室內空氣品質與學童肺功能 吳岳錡, 顏昱娟, 陳培詩	
			人口密集機構室內環境空氣傳播疾病之健康風險評估 方仲穎, 許家齊, 陳佳堃	
			探討台中市與屏東縣之 PM2.5 對於秀麗線蟲行為發展影響 莊勝懷, 許逸群, 趙浩然, 張玉婷	
	Technology Symposium on indoor environment	T-2	複式旋風集塵器性能特性研究 毛嘉儀, 林志威, 黃盛修, 陳志傑	Video
			成大學生活動中心地下室採光與熱舒適設計評估 鄭卉好, 蔡耀賢	
			我的空污我的健康-阿吉探針(AQHIPROBE) 鄭光甫, 楊雅惠, 李智慎, 蔡孟君	
應用微型感測技術評估臺灣室內 PM2.5 特徵與影響因子 陳穆貞, 徐瑋廷, 古俊宏, 陳裕政				
1520-1550	Break Time / POST			
1550-1650	Plenary Session	A-3	<p>Strategies of performance and efficiency for ventilation systems</p> Filtration, visibility and natural ventilation performance test using Parthenium hysterophorus pollen of various window screen filters Asma Nassor Salim, Pei-Chih Wu, Wei-Chen Wang Ventilation Performance Improvement for Contamination Control Scheme in an Operating Room Kusnandar, Fujen Wang, Riza Siti Azizah Performance Improvement of Biotech Vaccine Plant for Contamination Control and Optimization of Ventilation Indra Permana, Fujen Wang CFD Analysis of Ventilation System Configuration for Infection Control in Negative Pressurized Operating Room Yu-Lieh Wu, Utami Nuri Adilah, Chun-Hai Huang, Yu-Cheng Lai, Chien-Wen Lai	Video

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Time	Program	Chair	Location
		Air flow analysis and aerosol concentration measurement during intubation (a case study in an operating room) Tee Lin, Om id A li Zargar, Chung Chun Wang, Yu Nung Huang , Shih Cheng Hu	
	A-4	<p>Medical Design, construction, performance and policy of building</p> <p>Study on passive strategy of outdoor natural ventilation applied by environmental landscape for newly built dormitory in Taiwan Yanzuo Liu, Tinlin Lee, Yenyi Li</p> <p>校園文化資產空間再利用之室內聲學評估—以國立成功大學大成館為例 陳正維, 蔡耀賢</p> <p>以健康建築評估指標驗證程序探討新建獨棟別墅符合度之研究 卜擇凱, 邵文政, 呂旻恩, 張家軒, 葉漢祥</p> <p>Infection Control Improvement of a Negative-pressurized Isolation Room for Pediatric Intensive Care Units (PICU) Susan Gustiyana, Fujen Wang, Bivas Panigrahi, Citra Chaerasari</p> <p>公部門機構驗證綠裝修標章制度之研究-以桃園地方法院為例 呂旻恩, 邵文政, 張家軒, 卜擇凱, 黃聖吉</p>	Video

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4 June, 2021, Friday

Time	Program		Chair	Location
0830-0900	Registration			TSIEQ2021.ORG
0900-0930	Keynote Speech V	<i>Building Environmental Design and Controls as a Function of Human-Centered Approach</i> (U.S.A) Prof. Joon-Ho Choi Building Science in the School of Architecture, University of Southern California	Prof. Fu-Jen Wang (王輔仁教授)	On line [Cisco Webex]
0930-1000	Keynote Speech VI	<i>In Silico Modeling for Airborne Transmission of Inhaled Virus-Laden Droplets and Host Cell Dynamics in respiratory system</i> (Japan) Prof. Kazuhide Ito Department: Department of Advanced Environmental Science and Engineering	Prof. Yaw-Shyan Tsay (蔡耀賢教授)	On line [Cisco Webex]
1000-1030	Keynote Speech VII	<i>The role of ventilation in controlling COVID-19 transmission in the indoor environment</i> (China) Prof. Hua Qian Department of Refrigeration and Built Environment, Southeast University	Prof. Fu-Jen Wang (王輔仁教授)	On line [Cisco Webex]
1030-1100	Break Time / POST			
1100-1130	Keynote Speech VIII	<i>Ventilation in Buildings – Before, During and After the Pandemic</i> (Singapore) Prof. Chandra Sekhar Department of Building, National University of Singapore	Prof. Meng- Chieh, Jeffrey Lee (李孟杰教授)	On line [Cisco Webex]
1130-1200	Keynote Speech IX	<i>Internet of Things for Air Quality Monitoring: Past, Present and Future</i> (Taiwan) Prof. Ling-Jyh Chen Institute of Information Science, Academia Sinica	Prof. Chia-Wei Lee (李家偉教授)	On line [Cisco Webex]
1200-1300	Break Time / POST			
1300-1400	Plenary Session	B-1	Intelligent environmental monitoring modeling & assessment	Video

4 June, 2021, Friday

Time	Program		Chair	Location
			<p>Indoor PM2.5 Levels Estimation by Using Low-Cost Sensors with Land-Use Regression Integrated XGBoost Approach Pei-Yi Wong, Ling-Jyh Chen, Huey-Jen Su, Yu-Cheng Chen, Nai-Tzu Chen, Shih-Chun Candice Lung, Ta-Chih Hsiao, Chih-Da Wu</p> <p>Green synthesis of a hydrophilic mesoporous molecular sieve with a high surface area and environmental humidity control Ya-Wen Lin, Ta-Wui Cheng , Kae-Long Lin</p> <p>Highly-efficient self-powered formaldehyde sensor realized with triboelectric nanogenerator via using polyoxometalate as surface modification layer Cheng-You Tsai, Yu-Hsuan Cheng, Chih-Yu Chang</p> <p>演講廳二氧化碳濃度與舒適性之 ANSYA-FLUENNT 模擬與分析 洪明瑞，郭品緯，陳楚文</p> <p>台灣產後護理機構室內空氣品質現況調查之研究 李宜澄，陳振誠，邵文政，李高賜，王信富</p>	
	Student Paper Competition	S-1	<p>Sensitivity analysis of design parameters to indoor uncomfortable hours in office building under different climate conditions Ruijun Chen, Yaw-Shyan Tsay</p> <p>Indoor Transport of Airborne Ultrafine Particles: Trajectory Simulations and In-situ Monitoring Hsiang-Hao Chuang, Po-Kai Chang, Ching-Chun Lin, Tzu-Ting Yang, Hsiao-Chi Chuang, Ta-Chih Hsiao, Pau-Chung Chen</p> <p>Prediction models using the artificial neural network approach for hourly indoor PM2.5 concentrations in residential architectures. Yu Chen Lin, Yaw Shyan Tsay</p> <p>Air Quality Investigation for Typical Indoor Environments - Classroom vs. Club Office on University Campus during COVID-19 Epidemic Period Jheng Fong Tsai , Chi-Chi Lin</p>	Video
1400-1500	Plenary	B-2	Prevention & improvement of indoor air quality	Video

4 June, 2021, Friday

Time	Program		Chair	Location
	Session		<p>Establishment of an Analytical Platform for High-throughput Screening of Phthalates in Indoor Environment by Using Ambient Mass Spectrometry Hung Su, Szu-Yu Kuo, Min-Zong Huang, Jentaie Shiea</p> <p>An analysis on the improvement efficiency of carbon dioxide concentration in the classroom through a flow field simulation Jih-Shong Wu, Huang-Chin Wang, Guei-De Peng, Hsu-Cho Cheng</p> <p>Study on feasibility of new methods to prevent external air pollution Huang-Chin Wang, Chao-Heng Tseng, Hsu-Cho Cheng, To-Yuan Chen, Yi-Ming Ho</p> <p>Evaluation on the Improvement Effectiveness of Indoor Air Quality by Plant Purification – A Case Study in Kindergarten Huang-Chin Wang, Chao-Heng Tseng, Hsu-Cho Cheng, Chun-Chia Hsu, Yi-Ming Ho</p> <p>室內空氣污染潛在因子之研究—以嬰兒用品為例 張家軒, 邵文政, 陳振誠, 李宜澄, 卜擇凱, 呂旻恩</p>	
	Student Paper Competition	S-2	<p>Land-use Regression Coupled with Machine Learning Algorithms for Estimating Benzene Concentration Variation: A Case Study in the Main island of Taiwan Hong-Xin Xie, Yu-Ting Zeng, Yu-Cheng Chen, Yue Leon Guo, Pei-Yi Wong, Ying-Rong Chen, Shih-Chun Candice Lung, Chih-Da Wu</p> <p>Effects of Electronic Cigarette Aerosols on Atherosclerosis: Role of Particle Size Distribution and Chemical Compositions Tsai-Ling Chen, Kai-Chien Yang, Ta-Chih Hsiao</p> <p>Exposure characteristics of indoor organophosphate flame retardants via multiple exposures routes in children Chia-Hui Chieh, Wei-Hsiang Chang, Ching-Chang Lee</p> <p>Investigating associations between building characteristics, PM2.5 and organophosphate flame retardants in Tainan households Jyun-Yi Ciou, Wei-Hsiang Chang, Ching-Chang Lee</p>	Video

4 June, 2021, Friday

Time	Program		Chair	Location
1500-1600	Plenary Session	B-3	Strategies for removing indoor air pollutants	Video
			The consideration of AIoT sensors and controllers in the ventilation system to reduce the damp and biological pollutants in the bathroom	
			M.C. Jeffrey Lee, Hsiao-Ting Tseng, Kwok-Wai THAM, Pei-Tsen Shih	
			靜電空氣清淨機去除甲醛、生物氣膠和懸浮微粒之效率評估 陳沛蓁, 曾昭衡, 王楷豐	
			Objective Evaluation on Room Acoustics of Learning Environments Hui-Zhong Zhang, Wei Lin, Ling-Ting Yen, Wei Lin Ling-Ting Yen	
			Carbon dioxide removal from indoor environment with solid adsorbents Meng-Hsuan Yang, Chung-Sying Lu	
	Student Paper Competition	S-3	Relationship Between Indoor PM2.5 Exposure and Breast Milk Metals Level Chen-Tai Wang Chen-Tai Wang, Yung-Chieh Lin, Tsun-Ching Li, Hsiu-Ling Chen	Video
			The correlation among cool and warm season, occupants' behavior and indoor air quality Wan-Ru Wang, Chien-Cheng Jung, Huey-Jen Su	
			Ventilation Improvement Strategies of a Negative-pressure Isolation Room for Infection Control Citra Chaerasari, Fujen Wang	
1600-1630	Closing Ceremony			