

International Training Courses of Working Group on ReSAGPAPR

亞太土壤及地下水污染整治工作小組官員專業訓練課程

Sustainable Soil and Groundwater Protection and Remediation

土壤及地下水永續保護及復育

Date: December 03 to 10, 2023

Venue: Room 47118 Department of Environmental Engineering, National Cheng Kung University
國立成功大學環境工程學系 47118階梯教室

December 03-10, 2023

	Major Activities/Topics 主要活動/主題
Day 1 12/03 (Sun)	Transportation, Checking-in, Registration and Reception Dinner 交通時間、入住飯店、報到與接待宴
Day 2 12/04 (Mon)	Topic 1: Soil and Groundwater Protection- Current Status and Future Directions 主題一：土壤及地下水保護之現況與未來方向
9:00-9:30	1. Registration 報到
9:30-10:00	2. Opening Ceremony and Group Photos 開幕式與團體合照
10:00-10:50	3. Soil and Groundwater Protection in Taiwan: Status and Future Directions (Mr. Jui-Hsiang Liu, Deputy Director General, Environmental Management Administration, Ministry of Environment) 臺灣土壤及地下水環境保護：現況與未來方向 (環境部環境管理署 劉瑞祥副署長)
10:50-11:00	*Tea Break*
11:00-12:30	4. Soil and Groundwater Remediation: Collaboration among Stakeholders) (Prof. Kuei-Jyum Yeh, President, Taiwan Association for Soil and Groundwater Protection) 產官學合作經驗分享 (土水協會理事長葉桂君教授)
13:30-13:50	5. Overview of the Workshop (Profs. Tsair-Fuh Lin/Liang-Min Whang, National Cheng Kung University) 研習會綜述(成功大學環工系 林財富教授/黃良銘教授)
13:50-15:20	6. Soil and Groundwater Remediation in Indonesia and Southeast Asia (Prof. Euis Nurul Hidayah, Vice President, Universitas Pembangunan Nasional Veteran) 印尼及東南亞土水整治現況 (印尼 UPN 大學學術副校長 Prof. Euis Nurul Hidayah) *Tea Break*
15:20-15:40	7. Protection of Farmland Contamination: Investigation and Remediation (Prof. Zeng-Yei Hseu) 農地污染預防保護：調查與整治(臺灣大學農化系 許正一教授)
15:40-17:10	8. Q&A and Discussion (Profs. Tsair-Fuh Lin/Liang-Min Whang, National Cheng Kung University) 綜合討論 (成功大學環工系 林財富教授/黃良銘教授)
17:10-17:30	
18:00-20:00	Welcome Dinner 歡迎晚宴

Day 3 12/05 (Tue)	Topic 2: Soil and Groundwater Protection- Important Issues and Risk Assessment 主題二：土壤及地下水環境保護 - 重要議題與場址風險評估
9:00-10:30	1. Soil and Groundwater Protection in Asia: Status and Future Research and Practices (Prof. Tsair-Fuh Lin, National Cheng Kung University, Taiwan) 亞洲土壤及地下水環境保護：現況與未來之研究及實務發展方向 (成功大學環工系 林財富教授)
10:30-10:50	*Tea Break*
10:50-12:20	2. Risk Assessment for Soil and Groundwater Contamination (Dr. Chih Huang) 土壤及地下水污染之風險評估(鑫訓公司總經理 黃智博士)
13:30-15:00	Meeting Room 1 Topic 3: Soil and Groundwater Protection- Regulations 主題三：土壤及地下水環境保護 - 法規經驗分享
15:00-15:20	1. Soil and Groundwater Regulations: Taiwan's Experiences (Mr. Bo-Wei Liang, Sinotech Engineering Services, LTD.) 土壤及地下水環境-台灣法規經驗分享(環興科技公司 梁栢璋)
15:20-16:50	*Tea Break*
16:50-17:20	2. Soil and Groundwater Regulations: A Case Study of Risk Based Contaminated Site Management (Mr. Yun-Jie Lai, Appollo Tech.) 土壤及地下水環境法規-臺金場址風險評估案例 (瑞昶科技 賴允傑)
	3. Q&A and Discussion (Prof. Tsair-Fuh Lin/Liang-Min Whang, National Cheng Kung University) 綜合討論 (成功大學環工系 林財富教授/黃良銘教授)
18:30	Social Activities (Tainan City Sense) 社交活動 (臺南市)
Day 4 12/06 (Wed)	1. Opportunities of International Collaborations (國際合作機會) 2. Tainan City Tour (台南古蹟及生態之旅)
9:00-9:30	1. Team Project Discussion (Prof. Tsair-Fuh Lin, Liang-Ming Whang, Wan-Ru Chen, and Wen-Che Hou) 分組專案討論(林財富、黃良銘、陳蕓如、侯文哲教授(成大環工系))
9:30-10:20	2. International Research Collaborations (1) Belmont Forum Collaborative Research Actions, Mechanism and Opportunities. (Dr. Charles Chiu, Academia Sinica) 貝爾蒙論壇合作研究行動之機制與機會 中研院 邱漢瑜 博士
10:20-10:30	(2) WUN Asia SDG Program (Tsair-Fuh Lin, National Cheng Kung University) 世界大學聯盟亞洲永續發展目標計畫 成功大學林財富教授
10:30-17:30	Tainan City Tour 台南古蹟及生態之旅

Day 5 12/07 (Thu)	Topic 4: Soil and Groundwater Protection- Monitoring and Sustainable Remediation 主題四：土壤及地下水保護 - 調查與永續整治
9:00-10:30	1. NAPL Characterization in Contaminated Sites: Challenges to Representativeness (Prof. Colin S. Chen, National Kaohsiung Normal University) 污染場址中非水相液體之特徵：代表性的挑戰 (高師大生科系 陳士賢教授)
10:30-10:50	*Tea Break*
10:50-12:20	2. Remediation of Organic Contaminated Sites: Theories and Case Studies (Prof. Jimmy C.M. Kao, National Sun Yet Sen University) 有機物污染場址整治：理論與案例研究(中山大學環工系 高志明教授)
13:30-14:20	Meeting Room 1 3. Net Zero Issues and Emerging Contaminants (Dr. Pei-Yao Wu, ITRI) 淨零議題及新興污染物(工業技術研究院吳培堯博士)
14:30-15:20	4. ETV Issues (Dr. Ching-Ping Chu, Sinotech) 環境技術認證制度 中興社朱敬平博士
15:20-15:50	*Tea Break*
15:50-17:20	5. Management of Mega Sites (Dr. Ricky Chen, Stantec) 超大型污染場址之管理 (美商傑明 陳建宏副總經理)
	6. Q&A and Discussion (Prof. Tsair-Fuh Lin) 綜合討論 (成功大學環工系 林財富教授/黃良銘教授)
19:00-20:30	7. Team Project Discussion 分組專案討論
Day 6 12/08 (Fri)	Topic 5: Soil and Groundwater Protection- Field Visits and Demonstration (Kaohsiung) 主題四：土壤及地下水保護 - 場址參訪與技術展示 (高雄)
09:00-10:30	1. Field Visit (Lingyaliao Terminal, CPC Corporation) 中油苓雅寮儲運所場址 (Dr. Long-chem Wu, CPC Corporation, 中油公司土水整治中心吳龍泉主任)
10:50-12:20	(Dr. Yuan-Pang Sun, Geo Nano Environ. Tech., Inc. 睿元奈米環境科技 孫元邦博士) 2. Application of Geophysical and Direct Push Methods: Demonstration 地球物理及直接貫入法之應用：技術展示 (Pei-Yung, Shenhg, Technical Manager, Cenpro Technology, 中環公司 盛培勇經理) (Bing-Nan, Wang, Manager, Sinotech Environmental Technology LTD. 業興環境科技公司 王炳南經理)
13:30-15:00	3. Soil and Groundwater Protection in Taiwan: Engineering Applications I (Bing-Nan, Wang, Manager, Sinotech Environmental Technology LTD. 臺灣土壤及地下水保護：工程應用 (業興環境科技公司 王炳南經理)
15:30-17:00	4. Soil and Groundwater Protection in Taiwan: Engineering Applications II (Chien-jen Huang, General Manager, Jetpro Technologies Co. Ltd.) 臺灣土壤及地下水保護：工程應用 II (捷博公司案例 黃建仁 總經理)

19:00-20:30	Team Project Preparation and Discussion 分組專案準備與討論
Day 7 12/09 (Sat) (Half Day)	Topic 5: Soil and Groundwater Protection- Current Status and Needs for South East and South Asia 主題五：東南亞與南亞之土壤及地下水保護現況與需求
08:30-10:00	1. Team Project Presentations and Discussion: Problems and Status of Soil and Groundwater Protection (30 mins) 分組專案簡報與討論：土壤及地下水保護所面臨的問題與情勢 (Prof. Tsair-Fuh Lin, Liang-Ming Whang, Wan-Ru Chen, and Wen-Che Hou) 林財富、黃良銘、陳婉如、侯文哲教授(成大環工系) *Tea Break*
10:00-10:20	2. Representatives from 11 Countries: Australia, Cambodia, India, Indonesia, Japan, Korea, Malaysia, Philippines, Thailand, Sri Lanka, and Vietnam 十一國與會代表：泰國、馬來西亞、越南、印尼、菲律賓、印度、柬埔寨、澳、日、韓、斯里蘭卡
10:20-11:50	Topics Include: Country Report and Research Needs (11 Presentations are expected, with 15 mins presentations & discussion) 主題包含：國家現況報告與研究課題需求 (報告與討論 15 分鐘) Prof. Tsair-Fuh Lin, Liang-Ming Whang, Wan-Ru Chen, and Wen-Che Hou 林財富、黃良銘、陳婉如、侯文哲教授(成大環工系)
12:10-13:40	3. Representatives from 11 Countries: Australia, Cambodia, India, Indonesia, Japan, Korea, Malaysia, Philippines, Thailand, Sri Lanka, and Vietnam 十一國與會代表：泰國、馬來西亞、越南、印尼、菲律賓、印度、柬埔寨、澳、日、韓、斯里蘭卡 Topics Include: Country Report and Research Needs (11 Presentations are expected, with 15 mins presentations & discussion) 主題包含：國家現況報告與研究課題需求 (報告與討論 15 分鐘) Prof. Tsair-Fuh Lin, Liang-Ming Whang, Wan-Ru Chen, and Wen-Che Hou 林財富、黃良銘、陳婉如、侯文哲教授(成大環工系)
18:30-21:00	Farewell Party 晚宴
Day 8 12/10 (Sun)	Departure 離境