



ANNUAL SHOWCASE FOR SOIL AND GROUNDWATER

International Conference on Remediation and Management of Soil and Groundwater Contaminated Sites

November 26-28

Taipei World Trade Center Nangang Exhibition Hall (TWTC Nangang)



Taipei, Taiwan



Program





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Venue

Venue

Taipei World Trade Center Nangang Exhibition Hall

Address:

No.1, Jingmao 2nd Rd., Nangang District, Taipei City 11568, Taiwan

MRT

★ Taipei Nangang Exhibition Center Station Exit 2 & 2A

- Wenhua Line (Brown Line)
- Bannan Line (Blue Line)

For more detailed information, please visit
<http://english.trtc.com.tw/> (Taipei Metro)

Transfer to	Transfer Station	Terminal Stations
Airport	Songshan Airport	Taipei Nangang Exhibition Center Taipei Zoo
THSR	Taipei Main Station Banqiao	Danshui Xindian
TRA	Taipei Main Station Banqiao Nangang	Beitou Elephant Mout Taipei Nangang Exhibition Center Far Eastern Hospital Taipei Nangang Exhibition Center Yongning
Legend		
	Terminal Station	Luzhou Nanshijiao
	Regular Station	Hualong Nanshijiao
	Transfer Station	Ximen Taipower Building Beitou Xinbeitou Qizhang Xiaobitan



★ Taipei Nangang Exhibition Center Station

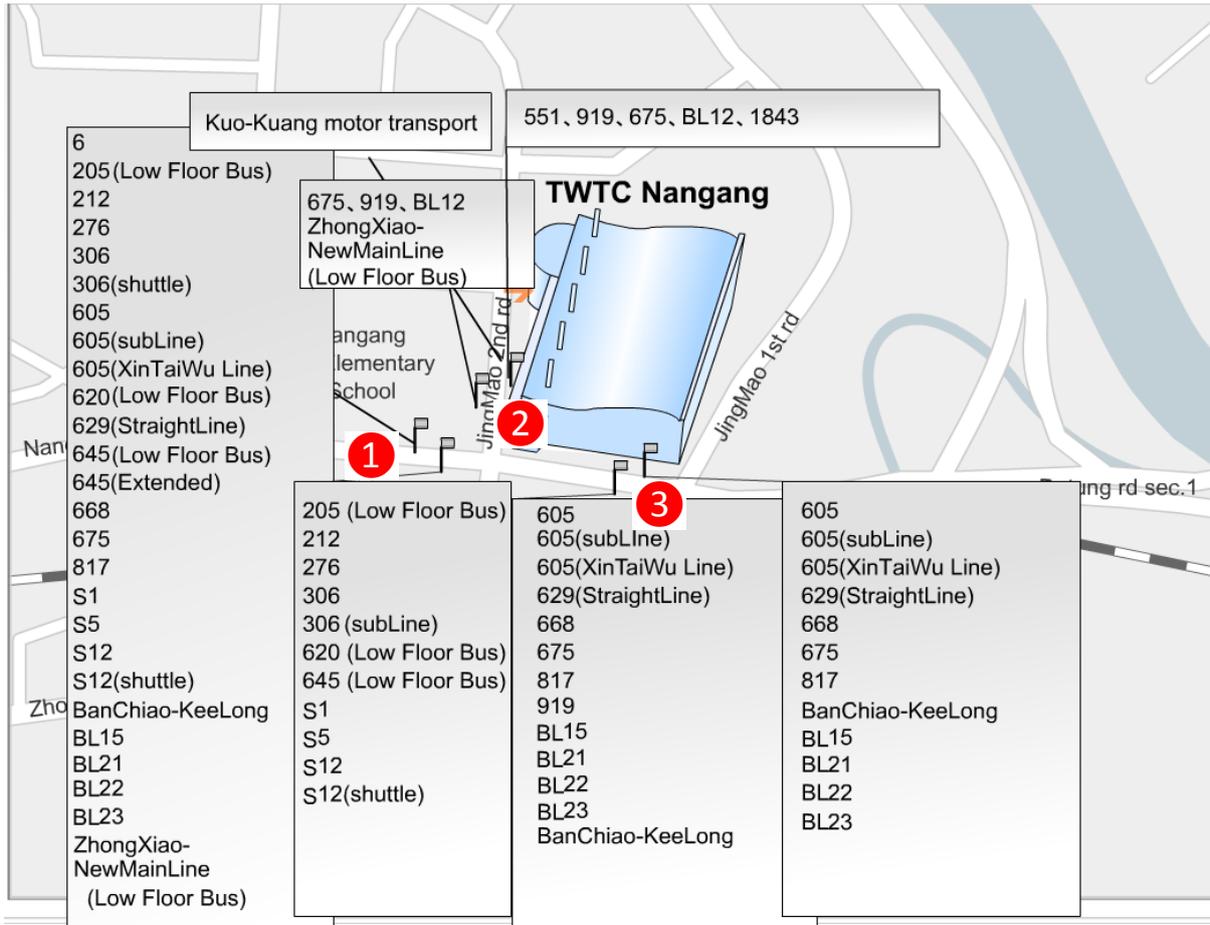


Bus Stop

- ① TWTC Nangang Exhibition Hall
- ② MRT Nangang Exhibition Hall (Jingmao 2nd. Rd.)
- ③ MRT Nangang Exhibition Center Station (Nangang Rd.)

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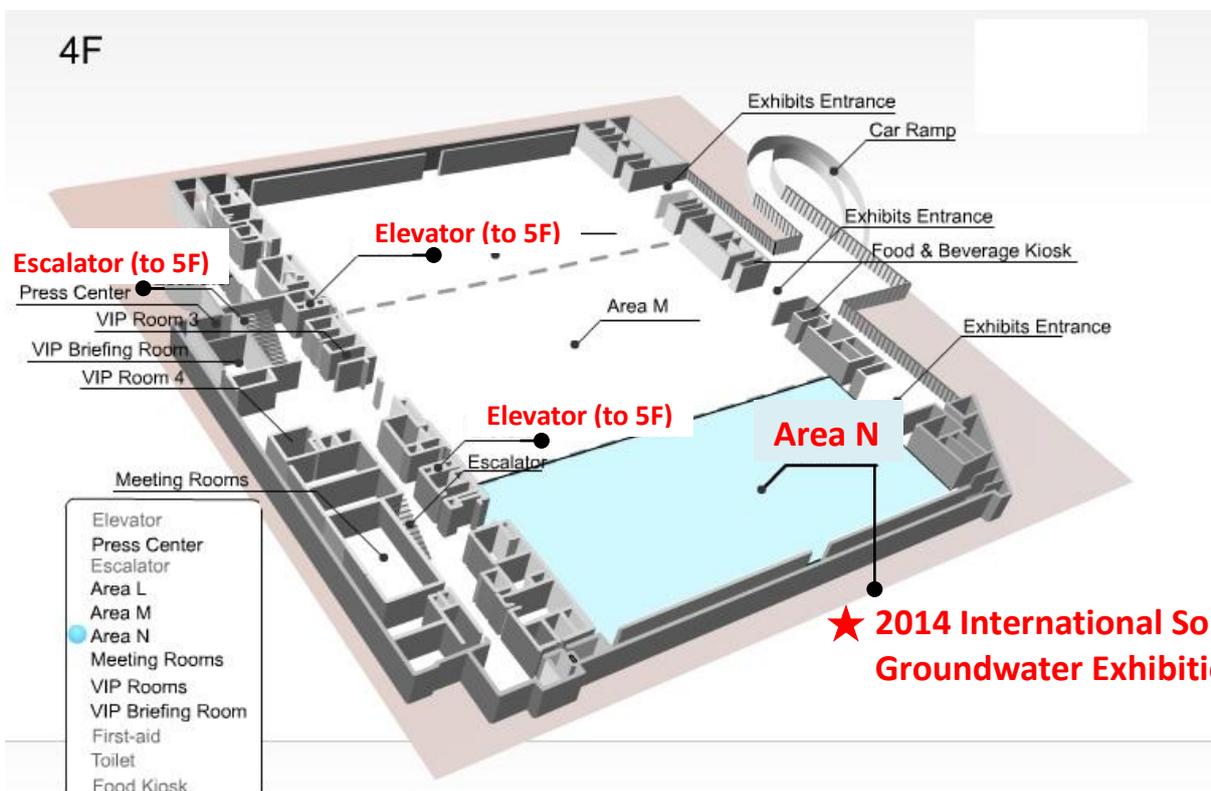
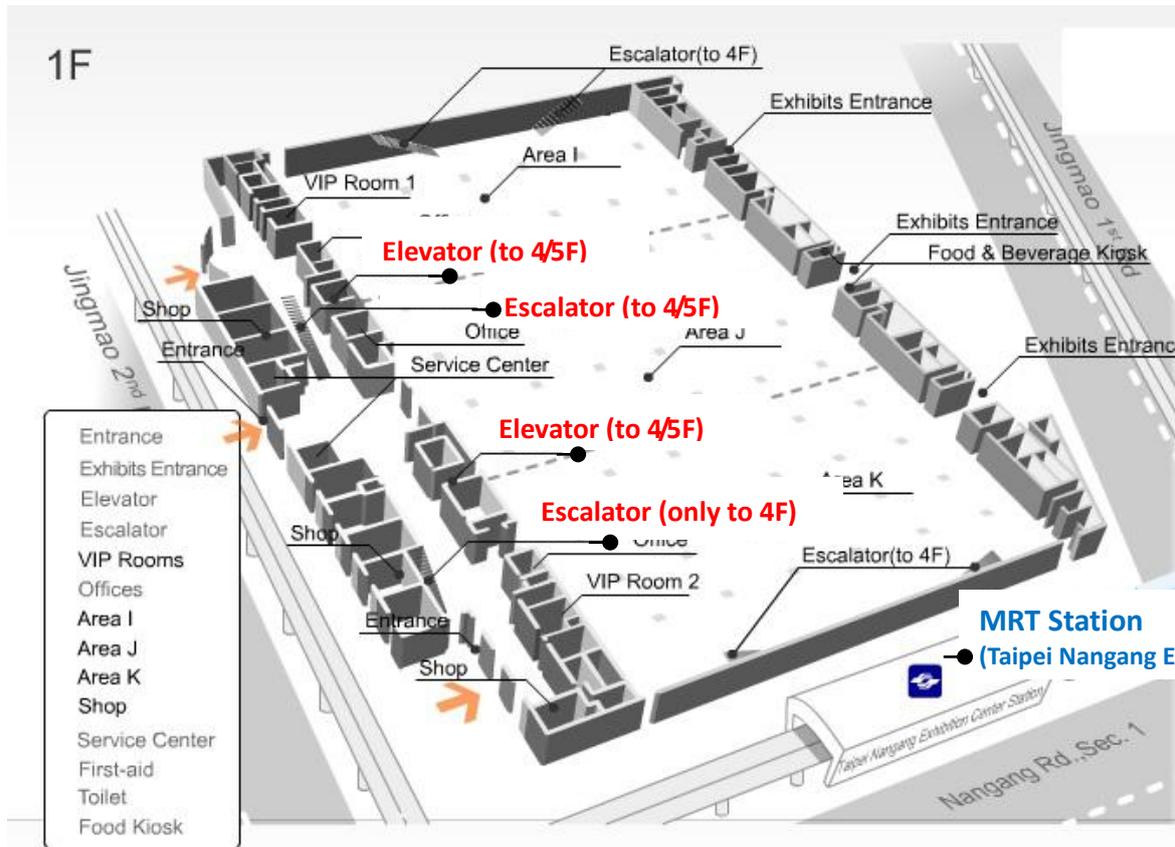
<http://5284.taipei.gov.tw/Dybus.aspx?Lang=En#> (Taipei Bus)





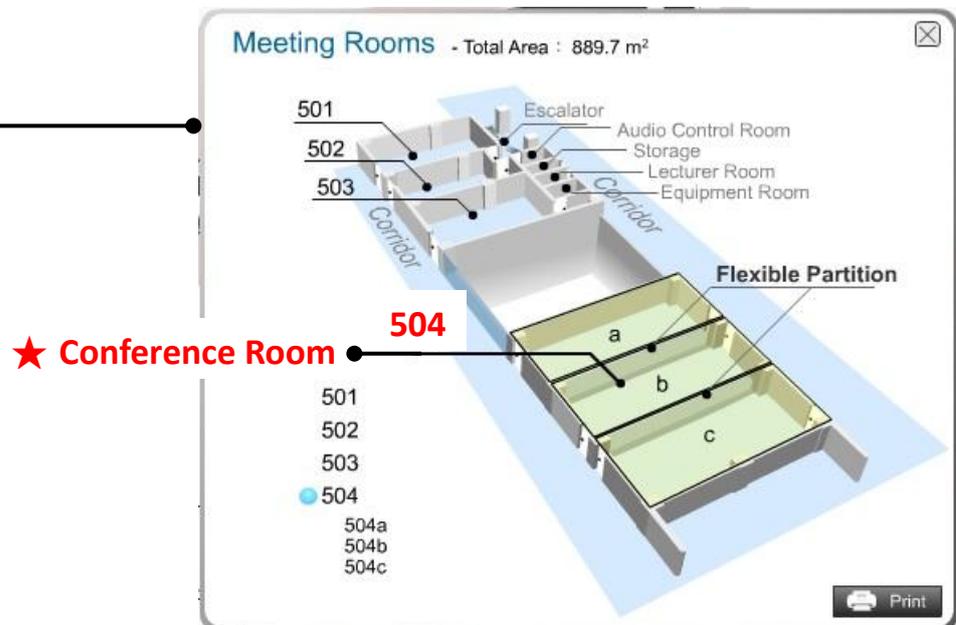
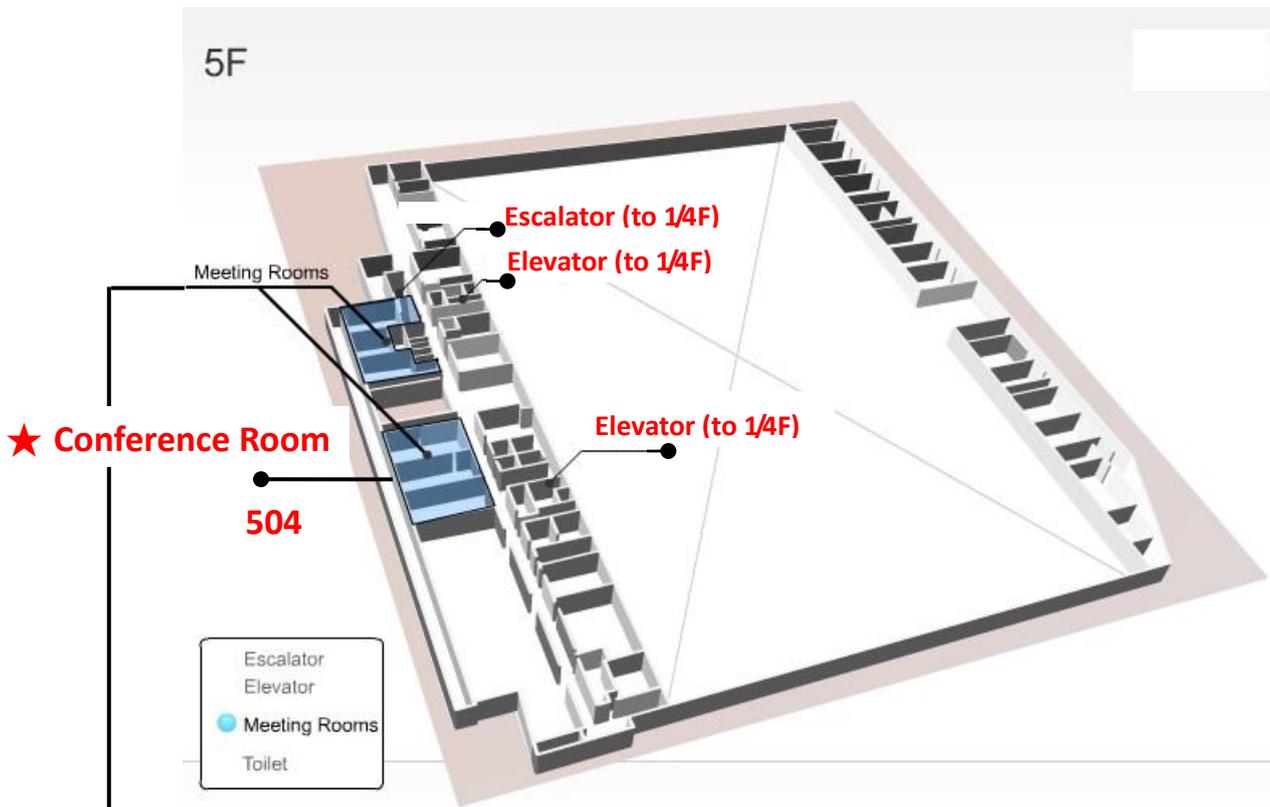
Floor Plans

Floor Plans _1F & 4F





Floor Plans _5F





Organization Committee

Organization Committee

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Zueng-Sang Chen, Ph.D.

Chairman of Working Group on the Remediation of Soil and Groundwater Pollution of Asian and Pacific Region (WG ReSAGPAPR) (2011-2016)

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ReSAGPAPR)
Department of Agricultural Chemistry, National Taiwan University, Taiwan.



Program

Program

at a glance

Nov 26 (Wed)	08:00-09:30	Registration			
	09:30-10:00	Opening Ceremony			
	10:00-10:30	Coffee Break			
	10:30-11:20	Plenary Session: Keynote Speech 1 Sustainable Development and Management of Brownfields (Prof. Dr. Rao Surampalli)			
	11:20-12:10	Plenary Session: Keynote Speech 2 Risk Based Contaminated Land Management (Prof. Dr. Paul Nathanail)			
	12:20-13:30	Lunch			
		Room	504-A	504-B	504-C
	13:30-15:10	S1: Sustainable Remediation (1) Moderator: Dr. Shih-Cheng Pan (潘時正)	S3: Remediation of Organic Pollutants (1) Moderator: Prof. Dr. Gordon. C. C. Yang (楊金鐘)	S5: Health Risk-based Remediation Technology (1) Moderator: Prof. Dr. Lambert L. Ding (丁力行)	
	15:10-16:00	Coffee Break & Poster Discussion			
	16:00-17:00	S2: Sustainable Remediation (2) Moderator: Dr. Shih-Cheng Pan (潘時正)	S4: Remediation of Organic Pollutants (2) Moderator: Prof. Dr. Gordon. C. C. Yang (楊金鐘)	S6: Health Risk-based Remediation Technology (2) Moderator: Prof. Dr. Lambert L. Ding (丁力行)	
Nov 27 (Thu)	08:00-09:00	Registration			
	09:00-10:40	S7: Sustainable Remediation (3) Moderator: Prof. Dr. Colin S. Chen (陳士賢)	S9: Remediation of Organic Pollutants (3) Moderator: Prof. Dr. Ting-Nien Wu (吳庭年)	S11: Sampling, Monitoring and Evaluation of site (1) Moderator: Prof. Dr. Chitsan Lin (林啟燦)	
	10:40-11:10	Coffee Break			
	11:10-12:10	S8: Sustainable Remediation (4) Moderator: Prof. Dr. Colin S. Chen (陳士賢)	S10: Remediation of Organic Pollutants (4) Moderator: Prof. Dr. Ting-Nien Wu (吳庭年)	S12: Sampling, Monitoring and Evaluation of site (2) Moderator: Prof. Dr. Chitsan Lin (林啟燦)	
	12:10-13:30	Lunch			



Program

at a glance

	Room	504-A	504-B	504-C
Nov 27 (Thu)	13:30-15:10	S13: Environmental Forensics Moderator: Prof. Dr. Kuei-Jyum Yeh (葉桂君)	S14: Remediation of Heavy Metals (1) Moderator: Prof. Dr. Dar-Yuan Lee (李達源)	S16: Sampling, Monitoring and Evaluation of site (3) Moderator: Mr. Spock Huang (黃建源)
	15:10-16:00	Coffee Break & Poster Discussion		
	16:00-17:00		S15: Remediation of Heavy Metals (2) Moderator: Prof. Dr. Dar-Yuan Lee (李達源)	S17: Sampling, Monitoring and Evaluation of site (4) Moderator: Mr. Spock Huang (黃建源)
Nov 28 (Fri)	08:00-09:00	Registration		
	09:00-10:40	S18: Bioremediation (1) Moderator: Dr. Ming-Daw Che (車明道)	S20: Remediation of Heavy Metals (3) Moderator: Prof. Dr. Zeng-Yei Hseu (許正一)	S22: Sampling, Monitoring and Evaluation of site (5) Moderator: Prof. Dr. Shian-Chee Wu (吳先琪)
	10:40-11:10	Coffee Break		
	11:10-12:10	S19: Bioremediation (2) Moderator: Dr. Ming-Daw Che (車明道)	S21: Remediation of Heavy Metals (4) Moderator: Prof. Dr. Zeng-Yei Hseu (許正一)	
	12:10-13:30	Lunch		
	13:30-15:10	S23: Bioremediation (3) Moderator: Dr. Chih Huang (黃智)	S24: Remediation of Heavy Metals (5) Moderator: Prof. Dr. Yong Sik OK	
	15:10-15:40	Coffee Break		
	15:40-16:30	Closing Ceremony		



Program

Detailed Program

November 26 (Wed)

Location: Room 504

Plenary session

Time	Speaker	Topics
08:00-09:30		Registration
09:30-09:35		Opening address by chairman, Prof. Dr. Zueng-Sang Chen
09:35-09:40		Opening address by Deputy Minister, Mr. Tzi-Chin Chang
09:40-10:00		Group photo
10:00-10:30		Coffee Break
10:30-11:20	Prof. Dr. Rao Surampalli	Keynote Speech 1 : Sustainable Development and Management of Brownfields
11:20-12:10	Prof. Dr. Paul Nathanail	Keynote Speech 1 : Risk Based Contaminated Land Management
12:10-13:30		Lunch



Detailed Program

November 26 (Wed)
Room **504-A**

S1 & S2 (Day 1)

Session S1: Sustainable Remediation (1)

Moderator: **Dr. Shih-Cheng Pan** (潘時正)

Time	Speaker	Topics
13:30-14:10	Prof. Dr. Jonathan Smith*	Sustainable Remediation: Incorporating sustainability into risk-based soil and groundwater management projects
14:10-14:40	Pei-San Lee 李佩珊	[SR-O-1] Brownfields Screening, Redevelopment Planning and Prioritization Process Promoting in Taiwan
14:40-15:10	Andrew Pruszinski	[SR-O-2] Vapour (TCE) intrusion and the relocation of people from their homes – the cause, the relocation, the science, the outrage
15:10-16:00	Coffee Break & Poster Discussion	

Session S2: Sustainable Remediation (2)

Moderator: **Dr. Shih-Cheng Pan** (潘時正)

Time	Speaker	Topics
16:00-16:40	Mr. Jonathan Meier*	Challenges in implementing groundwater remedial technologies in Asia with case studies from Japan: Permeable Reactor Barrier (PRB) and In-Situ Thermal Remediation (ISTR)
16:40-17:10	Ben B.J. Shiau	[SR-O-3] Advances in Surfactant Enhanced Aquifer Remediation: Lessons Learned and New Trend



Program

Detailed Program

November 26 (Wed)

Room **504-B**

Session S3: Remediation of Organic Pollutants (1)

Moderator: Prof. Dr. Gordon C. C. Yang (楊金鐘)

Time	Speaker	Topics
13:30-14:10	Mr. Jeffrey D. TeGrotenhuis*	Containment and Bioreactor, Wetlands, or Ion Exchange Resin Ex-Situ Treatment to Facilitate In-Situ Remediation
14:10-14:40	Chih Huang 黃智	[RO-O-1] Groundwater Circulation System for CVOC Contaminated Groundwater in Taiwan-Case Study
14:40-15:10	Lo Tsui 崔鈞	[RO-O-2] Applying Compost Liquid as Surfactant Flushing Agent for Enhancing Removal of Groundwater PCE
15:10-16:00	Coffee Break & Poster Discussion	

Session S4: Remediation of Organic Pollutants (2)

Moderator: Prof. Dr. Gordon C. C. Yang (楊金鐘)

Time	Speaker	Topics
16:00-16:40	Khalilalrahman Dehvari	[RO-O-3] Degradation of TNT, RDX, and HMX Explosives using Permeable Zero Valent Iron Nanoparticles Barrier
16:40-17:10	Yu-Huei Peng 彭優慧	[RO-O-4] Adsorption and sequential degradation of brominated flame retardants with zerovalent iron



Detailed Program

November 26 (Wed)

Room **504-C**

S5 & S6 (Day 1)

Session **S5: Health Risk-based Remediation Technology (1)**

Moderator: **Prof. Dr. Lambert L. Ding** (丁力行)

Time	Speaker	Topics
13:30-14:10	Dr. Karin Guiguer*	Ecological Risk Assessment under Canada Federal Contaminated Sites Action Plan - Steeves Lake, Colomac Mine Example
14:10-14:50	Dr. Rebecca Chou*	Low-Threat Underground Storage Tank Case Closure Policy in California
14:50-15:10	Hsiao-Wei Chang 張筱薇	[HR-O-1] The Improvement of Transformer Insulation Oil Pollution Site
15:10-16:00	Coffee Break & Poster Discussion	

Session **S6: Health Risk-based Remediation Technology (2)**

Moderator: **Prof. Dr. Lambert L. Ding** (丁力行)

Time	Speaker	Topics
16:00-16:40	Dr. Sophie Wood*	Assessment of ecological risks in coastal sediments: An Australian oil refinery case study
16:40-17:10	Huei-Shan Lin 林輝山	[HR-O-2] Establishment the system platform of risk management for abandoned factories in Taiwan



Program

Detailed Program

November 27 (Thu)

Room **504-A**

Session **S7**: Sustainable Remediation (3)

Moderator: Prof. Dr. Colin S. Chen (陳士賢)

Time	Speaker	Topics
09:00-09:40	Mr. Marc Soellner*	Green and Sustainable Remediation: A Review and an Outlook
09:40-10:10	Tsai-Wen Chiang 蔣在文	[SR-O-4] Green and Sustainable Remediation Development in Taiwan
10:10-10:40	Sheng-Wei Wang 王聖璋	[SR-O-5] Management of groundwater quality in Taiwan
10:10-10:40	Coffee Break	

Session **S8**: Sustainable Remediation (4)

Moderator: Prof. Dr. Colin S. Chen (陳士賢)

Time	Speaker	Topics
11:10-11:50	Dr. Dora Chiang*	An Overview of the History, Accomplishments, and On-going Initiatives of the Sustainable Remediation Forum (SURF)
11:50-12:10	Charley Wang 王從利	[SR-O-6] Imminent Environmental Remediation in China
12:10-13:30	Lunch	

S7 & S8 (Day 2)



Detailed Program

November 27 (Thu)

Room **504-B**

Session **S9: Remediation of Organic Pollutants (3)**

Moderator: **Prof. Dr. Ting-Nien Wu (吳庭年)**

Time	Speaker	Topics
09:00-09:40	Yang-hsin Shih 施養信	[RO-O-5] Zerovalent iron nanoparticles for the remediation of recalcitrant organic contaminants
09:40-10:10	Kuen-Song Lin 林錕松	[RO-O-6] <i>In-Situ</i> Decontamination of DNAPLs in Groundwater by Polymer-coated Zero-valent Iron Nanoparticles
10:10-10:40	Chih-ping Tso 左致平	[RO-O-7] The reduction of hexabromocyclododecane (HBCD) by zerovalent iron and bimetallic nanoparticle aggregates
10:10-10:40	Coffee Break	

S9 & S10 (Day 2)

Session **S10: Remediation of Organic Pollutants (4)**

Moderator: **Prof. Dr. Ting-Nien Wu (吳庭年)**

Time	Speaker	Topics
11:10-11:40	Chau-Yuan Wei 韋朝源	[RO-O-8] Decolorization and mineralization of Congo red with zerovalent iron nanoparticles
11:40-12:10		
12:10-13:30	Lunch	



Program

Detailed Program

November 27 (Thu)

Room **504-C**

Session **S11: Sampling, Monitoring and Evaluation of site (1)**

Moderator: **Prof. Dr. Chitsan Lin (林啟燦)**

Time	Speaker	Topics
09:00-09:40	Pei-Hsuan Yao 姚佩萱	[SME-O-1] The Course of Protecting Agricultural Land from Heavy Metal Pollution in Taiwan
09:40-10:10	Shawntine Lai 賴宣婷	[SME-O-2] The Application of Multi-Increment Sampling to Characterization of Pb on Agricultural Land
10:10-10:40	Yi-Fong Pan 潘毅峰	[SME-O-3] Impact of natural organic matter on the redox reaction of arsenic in water
10:40-11:10	Coffee Break	

Session **S12: Sampling, Monitoring and Evaluation of site (2)**

Moderator: **Prof. Dr. Chitsan Lin (林啟燦)**

Time	Speaker	Topics
11:10-11:40	Hui-Ping Chuang 莊蕙萍	[SME-O-4] Application of qPCR for Detection of Dehalococcoides sp. in Groundwater Contaminated with Chlorinated Compunds
11:40-12:10	Chia-Hsing Lee 李家興	[SME-O-5] Prediction of Cu and dissolved organic carbon (DOC) sorption onto kaolinite in field pH range
12:10-13:30	Lunch	

S11 & S12 (Day 2)



Detailed Program

November 27 (Thu)

Room **504-A**

Session **S13: Environmental Forensics**

Moderator: **Prof. Dr. Kuei-Jyum Yeh (葉桂君)**

Time	Speaker	Topics
13:30-14:10	Dr. Jun Lu*	Environmental Forensics and Remedial Site Investigations
14:10-14:40	Huei-YA Lin 林徽雅	[EF-O-1] Identifying the Source of Heavy Metals Contaminated in Farmlands and Cases Sharing
14:40-15:10	Kai-Hsing Yang 楊愷行	[EF-O-2] Application of Geographic Information System to Soil and Groundwater Contamination Management
15:10-16:00	Coffee Break & Poster Discussion	

S13 (Day 2)



Program

Detailed Program

November 27 (Thu)

Room **504-B**

Session S14: Remediation of Heavy Metals (1)

Moderator: Prof. Dr. Dar-Yuan Lee (李達源)

Time	Speaker	Topics
13:30-14:10	Prof. Dr. Nanthi Bolan*	Remediation of Heavy Metal(loid)s Contaminated Soils – to Mobilize or to Immobilize?
14:10-14:40	Zeng-Yei Hseu 許正一	[HM-O-1] Effects of Remediation Train Sequence on Decontamination of Heavy Metal-contaminated Soil Containing Mercury
14:40-15:10	Dar-Yuan Lee 李達源	[HM-O-2] Arsenic release into soil solution and accumulation by paddy rice grown in As-contaminated soils as affected by organic matter application
15:10-16:00	Coffee Break & Poster Discussion	

Session S15: Remediation of Heavy Metals (2)

Moderator: Prof. Dr. Dar-Yuan Lee (李達源)

Time	Speaker	Topics
16:00-16:40	Tai-Hsiang Huang 黃泰祥	[HM-O-3] Water Management to Reduce the Arsenic Content of Brown Rice for Different As-Contaminated Soils
16:40-17:10	T. Y. Yeh 葉琮裕	[HM-O-4] The Improvement of Phytomediation on the Treatment Effectiveness of Heavy Metals with Energy Sunflower Plants with Calcium Peroxide and Phytohormones

S14 & S15 (Day 2)



Detailed Program

November 27 (Thu)

Room **504-C**

Session **S16: Sampling, Monitoring and Evaluation of site (3)**

Moderator: **Mr. Spock Huang (黃建源)**

Time	Speaker	Topics
13:30-14:10	Chien-Cheng Kuo	[SME-O-6] Assessment of Acute Toxicity of Explosives in the Environment
14:10-14:40	Tsai-Ping Lee 李在平	[SME-O-7] Evaluation of Preferential Groundwater Flow Using the Heat-pulse Flowmeter at a Contamination Site
14:40-15:10	Yu-Jen Huang 黃裕仁	[SME-O-8] Evaluation of anaerobic reductive dechlorination of trichloroethene by using laboratory scale columns
15:10-16:00	Coffee Break & Poster Discussion	

S16 & S17 (Day 2)

Session **S17: Sampling, Monitoring and Evaluation of site (4)**

Moderator: **Mr. Spock Huang (黃建源)**

Time	Speaker	Topics
16:00-16:40	Jiann-Long Chen 陳建隆	[SME-O-9] Simulating the Effect of Infiltration from River on Groundwater Quality
16:40-17:10		



Program

Detailed Program

November 28 (Fri)

Room **504-A**

Session **S18: Bioremediation (1)**

Moderator: **Dr. Ming-Daw Che (車明道)**

Time	Speaker	Topics
09:00-09:40	Dr. Kung-Hui Chu*	Microbial Biodegradation of Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
09:40-10:10	Chih-Jen Lu 盧至人	[BR-O-1] Aerobic Biodegradation of Dichloroethene in Simulated Groundwaters
10:10-10:40	Martin Slooijer	[BR-O-2] Biological Chlorobenzene Remediation
10:40-11:10	Coffee Break	

Session **S19: Bioremediation (2)**

Moderator: **Dr. Ming-Daw Che (車明道)**

Time	Speaker	Topics
11:10-11:40	John A Dijk	[BR-O-3] Biospeed Concept to Shorten Remediation Time for Chlorinated Ethenes
11:40-12:10	Chin-Shun Kuo 郭進順	[BR-O-4] Biodegradation of 4-monobrominated diphenyl ether with anaerobic microcosms
12:10-13:30	Lunch	

S18 & S19 (Day 3)



Detailed Program

November 28 (Fri)

Room **504-B**

Session **S20: Remediation of Heavy Metals (3)**

Moderator: **Prof. Dr. Zeng-Yei Hseu (許正一)**

Time	Speaker	Topics
09:00-09:40	Prof. Jae E. Yang*	Beneficial Use of Coal Combustion Residuals for the Sustainable Land Remediation in Korea
09:40-10:10	Chia-Hsing Lee 李家興	[HM-O-5] The effects of adding husk on arsenic concentration of brown rice grown in two poor-drained arsenic-contaminated soils
10:10-10:40	Woo-Chang Kang	[HM-O-6] An Online Monitoring System using Sulfur Oxidizing Bacteria for Detection of Toxic Chemicals in Stream Water
10:40-11:10	Coffee Break	

Session **S21: Remediation of Heavy Metals (4)**

Moderator: **Prof. Dr. Zeng-Yei Hseu (許正一)**

Time	Speaker	Topics
11:10-11:50	Mr. Ed Norrena*	Mine Remediation Training and Employment In Canada's North
11:50-12:10	Gordon. C. C. Yang 楊金鐘	[HM-O-7] Remediation of an Actual Mercury-Contaminated Soil Using the Iodide-Assisted Electrokinetic Process
12:10-13:30	Lunch	

S20 & S21 (Day 3)



Program

Detailed Program

November 28 (Fri)

Room **504-C**

Session **S22: Sampling, Monitoring and Evaluation of site (5)**

Moderator: **Prof. Dr. Shian-Chee Wu (吳先琪)**

Time	Speaker	Topics
09:00-09:40	Chia-Hsin Li 李佳欣	[SME-O-10] Development of Early-warning Lights Classification Management System for Industrial Parks
09:40-10:10	Ting-Nien Wu 吳庭年	[SME-O-11] Comparison of Membrane Interface Probe and Laser Induced Fluorescence on Site Pollution Investigation and Assessment
10:10-10:40	Chiling Chen 陳琦玲	[SME-O-12] Inorganic Nitrogen Distribution in Groundwater in Southwestern Taiwan and Strategies to Prevent Its Contamination
10:40-11:10	Coffee Break	

S22 (Day 3)



Detailed Program

November 28 (Fri)

Room **504-A**

Session **S23: Bioremediation (3)**

Moderator: **Dr. Chih Huang (黃智)**

Time	Speaker	Topics
13:30-14:10	Dr. Kazuhiro Takagi*	Recent progress in bioremediation study of POPs-contaminated soil
14:10-14:40	Huifeng Shan	[BR-O-5] PeroxyChem's Chemical and Biological Remediation Technologies and Applications at Challenging Sites in China
14:40-15:10	Chitsan Lin 林啟燦	[BR-O-6] Application of Compost Tea for the Treatment of Diesel Contamination by Soil Washing
15:10-15:40	Coffee Break	
15:40-16:30	Closing Ceremony	

S23 (Day 3)



Program

Detailed Program

November 28 (Fri)

Room **504-B**

Session **S24: Remediation of Heavy Metals (5)**

Moderator: **Prof. Dr. Yong Sik OK**

Time	Speaker	Topics
13:30-14:10	Prof. Dr. Yong Sik OK*	The role of biochar, natural iron oxides and nanomaterials as soil amendments for immobilizing metals in shooting range soil
14:10-14:40	Chiling Chen 陳琦玲	[HM-O-8] Arsenic distribution in groundwater in southwestern Taiwan and evaluation of removal methods
14:40-15:10	Chien-Hui Syu 許健輝	[HM-O-9] Effect of soil As concentrations and genotypes on As content and speciation in grains of rice grown in As-elevated paddy soils
15:10-15:40	Coffee Break	
15:40-16:30	Closing Ceremony	

S24 (Day 3)



Invited Speakers and Moderators



Honored Guests



Taiwan

Kuo-Yen Wei

Minister

Environmental Protection Administration

Dr. Kuo-Yen Wei received his Ph.D. degree from Graduate School of Oceanography, University of Rhode Island. He is the Minister of Environmental Protection Administration (EPA), Executive Yuan, R.O.C. (Taiwan). He is Professor in Department of Geosciences (1994 to now), National Taiwan University (NTU). He is Adjunct Research Fellow in Institute of Earth Sciences, Academia Sinica.



Taiwan

Tzi-Chin Chang

Deputy Minister

Environmental Protection Administration

Mr. Tzi-chin Chang received his master degree from Institute of Environmental Engineering, National Chiao Tung University. He is the Deputy Minister of Environmental Protection Administration (EPA), Executive Yuan, R.O.C. (Taiwan). He has completed the qualifications of "Senior Professional and Technical Examinations for the Category of Civil Engineering" and "Senior Examination for Civil Service Personnel in the category of Environmental" in 1980.



Taiwan

Hung-Teh Tsai

Executive Secretary

Soil and Groundwater Remediation Fund Management Board

Environmental Protection Administration

Mr. Hung-Teh Tsai received his M.S. from National Taiwan University. He is Technical Superintendent and Executive Secretary in Soil and Groundwater Remediation Fund Management Board (SGRFMB), Environmental Protection Administration, R.O.C. He has more experience on Administration, Site Supervision and Management.



Chairman of International Conference Chairman of Working Group

Taiwan

Zueng-Sang Chen



Chairman of Working Group on the Remediation of
Soil and Groundwater Pollution of Asian and Pacific Region (WG
ReSAGPAPR) (2011-2014)

c/o

Distinguished Professor of pedology and soil environmental quality

Department of Agricultural Chemistry

National Taiwan University

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Taiwan

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Lab website <http://Lab.ac.ntu.edu.tw/soilsc/>

Zueng-Sang Chen is the Distinguished Professor of pedology and soil environmental quality (2007 to now), Department of Agricultural Chemistry (DAC) of National Taiwan University (NTU). He was the Associate Dean of College of Bioresources and Agriculture of NTU in 2007-2011 and Department Head of DAC/NTU in 2004-2007. He was awarded the Distinguished Agricultural Expert Award of Council of Agriculture of Taiwan in 2012, the ESAFS (East and Southeastern Federation of Soil Science Societies) Distinguished Award in 2009, NTU Distinguished Social Service Award in 2009, and the KIWANIS Distinguished Agricultural Expert Award in 2007. He primarily studied the soil genesis, soil environmental quality, the behavior and bioavailability of heavy metals in the soil-crop system, and using the phytoremediation on metals-contaminated sites.



Invited Speakers

Keynote Speakers



USA

Rao Surampalli

Professor
University Nebraska

Dr. Rao Y. Surampalli received M.S and Ph.D degrees in Environmental Engineering from Oklahoma State and Iowa State Universities, respectively. He is a Registered Professional Engineer in the branches of Civil and Environmental Engineering, and also a Board Certified Environmental Engineer (BCEE) of the American Academy of Environmental Engineers (AAEE). He has worked for private sector for 7 years and worked with USEPA for 29 years. Currently, he is President and CEO of Global Institute for Energy, Environment and Sustainability. Dr. Surampalli is an Adjunct Professor in 8 universities and Distinguished Visiting Professor in 5 universities. He has authored more than 600 technical publications, including 15 patents, 16 books, 109 book chapters, 252 refereed (peer-reviewed) journal articles, over 109 gene bank submissions, presented at more than 220 national and international conferences, and given over 110 plenary, keynote or invited presentations worldwide. His hobbies are: Yoga, Tennis, Walking, Golf and Traveling.



UK

Paul Nathanail

Professor
University of Nottingham

Paul Nathanail is the University of Nottingham's Professor of Engineering Geology (www.nottingham.ac.uk/geography) and the Managing Director of specialist contaminated land consultancy Land Quality Management Ltd (www.lqm.co.uk). He is a member of the UK Department of the Environment (DEFRA) National Expert Panel on Contaminated Land. He is the lead author of: a Defra project reviewing contaminated land management policy in 14 countries (USA, Canada, Australia, Japan and 10 EU member states); the first UK guidance on asbestos in soil since 1990 (CIRIA C733, published in March 2014) and the brand new set of S4UL UK generic assessment criteria. He leads the ISO Working Group developing a standard on Sustainable Remediation. He has been advising UK government departments and other major stakeholders on both policy and site specific aspects of risk based contaminated land management for well over a decade.



USA

Dora Chiang

Associate Vice President
AECOM

Dr. Chiang is Associate Vice President and Deputy Director of Remediation Technology at AECOM. She leads Research and Development (R&D) on environmental remediation technology, and serves as Technical Director for global chemical and pharmaceutical market sector. She has a role on business development and technology transfer for company's Great China region. She works collaboratively with senior management to assess and determine the firm's position in global contaminated site cleanup and closure. She oversees strategic initiatives and supports key business development activities. As a technical advisor, she serves as a national resource for selecting, designing and implementing remediation systems for soil, sediment, and groundwater contaminated with petroleum compounds, chlorinated solvents, emerging contaminants and metals for federal, industrial, commercial and state projects. She is also AECOM global thought leadership award winner in 2014.



Canada

Ed Norrena

Senior Advisor
Air Quality, Climate Change, Sustainability, and Government
Relations, SNC-Lavalin Environment

Mr. Edward J. Norrena is currently President of EDGE Environmental Consulting Ltd. His primary role is with SNC Lavalin as Senior Advisor Air Quality, Climate Change, Sustainability and Government Relations. He previously led SLR Consulting (Canada) Limited's Climate Change and Sustainability practice. Between 2006 and 2008 Mr. Norrena was Regional Manager for Eastern Canada for Gartner Lee Limited, which provides environmental science, economics, planning, and engineering consulting services. From 2000 to 2006 he was General Manager of SENES Consultants Limited, specializing in areas that included policy development, strategic planning and environmental technology programs. Mr. Norrena is past chair and board member of ECO Canada (Environmental Careers Organization). Until 2000, Mr. Norrena was Director General for the Environmental Technology Advancement Directorate of EC, with responsibility for national and international programs, technology transfer and for technology programs in biotechnology, municipal waste, climate change, air quality and contaminated sites. In his prior capacity as Director General for the Regulatory Affairs and Program Integration Directorate of Environment Canada, he was responsible for the review of the Canadian Environmental Protection Act and for global strategies programs. Before this, he worked in an operational role as Regional Director General for Atlantic Canada. Mr. Norrena is a professional engineer and holds an M.A.Sc. in Water Resources Engineering and a B.A.Sc. in Civil Engineering from the University of Waterloo.



Invited Speakers



Korea

Jae E. Yang

Professor
Kangwon National University

Dr. Yang has been professor of soil environmental chemistry since 1990 at Kangwon National University, Korea. After serving as Dean of College of Agriculture and Life Sciences and Director of Agricultural Experimental Station until the end of February of 2012, he involves in research and teaching on soil chemistry, pollution and remediation. He received the Ph.D. degree from Montana State University, USA in 1987 and had postdoctoral experiences in USA and Canada until 1990. Dr. Yang has served as the President of International Union of Soil Sciences (IUSS) from 2010 to 2014. Dr. Yang published more than 180 peer reviewed research papers, +300 abstracts at domestic and international meetings, coauthored 20 books or chapters and registered more than 10 patents.



USA

Jeffrey D. TeGrotenhuis

Principal Remediation Engineer
MWH Global, Inc.

Mr. TeGrotenhuis is an engineer and chemist who has worked for MWH Global, a world-wide consulting firm of nearly 8,000-people, for over 20 years in the area of contaminated site remedial action. He is currently the Energy and Industry Global Remediation Practice Lead, a position that has provided him access to projects over the Americas and Europe, from which he has been honored to learn different methods of approaching similar problems and related lessons-learned. His primary role is to encourage global knowledge sharing and use of best practices to deliver state-of-the-art technologies and strategies to our clients.



Japan

Jonathan Meier

Partner, ERM-Japan
Technical Director
Contaminated Site Management (CSM) Group.

Jonathan Meier is a Partner in Environmental Resources Management's Yokohama, Japan office managing the companies Contaminated Site Management (CSM) and Energy & Climate Change (E&CC) business. Mr. Meier has been a hydrogeologist in the environmental consulting industry for over 20 years and has extensive experience conducting environmental due diligence, managing site investigations, human health risk assessments, remediation projects, and full scale turn-key plant closures at industrial sites in the United States and Asia. Jon has been with ERM for the past 15 years, the last 12 of which has been working as a Partner in Japan. In addition to supporting our clients with strategic advice on investments, Jon has recently focused on providing our clients with exit strategies on industrial sites including managing environmental liabilities and risks. This work has included high resolution site characterization, feasibility studies, regulatory and stakeholder negotiations, detailed remedial design, soil and groundwater remediation, and plant or facility closures (decontamination, decommissioning, demolition, material surveys, asbestos abatement, waste management).



UK

Jonathan W N Smith

Hydrogeologist
Shell Global Solution (UK) Ltd

Jonathan is a hydrogeologist with 20 years experience of soil and groundwater risk-management. He is a Visiting Professor of Contaminant Hydrogeology at the University of Sheffield, a Chartered Geologist, and an accredited Specialist in Land Condition (SiLC). At Shell Jonathan leads Projects & Technology Group's global soil and groundwater (SGW) advocacy programme. He previously working both is regulatory authorities and academia.



USA

Jun Lu

Principal Technical Specialist
AECOM

Dr. Lu held a Ph.D degree in geochemistry and is a California professional geologist, certified Hydrogeologist and certified Engineering Geologist. As he has been involved in various environmentally related disciplines over 28 years of his professional career, he is in a unique position to most effectively integrate the multiple key disciplines for evaluation of migration pathways and fate of contaminants of concern and forensic investigation. He has provided technical support for legal teams for environmental liability related projects and also served as a "Subject Matter Expert" of groundwater hydrogeology for the State of California Board of Professional Engineers and Land Surveyors. For the past eighteen years, he has been extensively involved with environmental site characterization and forensics projects at various sites including river and marine sites, petroleum refineries, terminals and pipelines, underground storage tanks, oil fields, MGPs, chlorinated solvent sites and various other industrial facilities. He has been invited to give and to chair the presentations on environmental subjects at national and international conferences and published numerous papers and book chapters within disciplines of geology and environmental science



Invited Speakers



Brazil

Karin Guiguer

Principal Consultant
Environmental Resources Management (ERM)

Karin Guiguer is a biologist with a Masters and a Ph.D. degree at the University of Waterloo, in Canada. In Brazil she is ERM's ecological and human health practice leader with over 18 years of experience in environmental site assessments. Her work comprises contaminated site investigations, quantitative human health and ecological risk assessments, sediment toxicity assessment and senior peer reviewer for risk assessment studies. She has conducted risk assessments for sites impacted by chlorinated solvents, petroleum hydrocarbons, metals, PAHs, and PCBs. In Canada, she is a designated Qualified Person (QP) for risk assessments as specified under Ontario Regulation 519/09. In Brazil, Karin has given lectures to several Environmental Agencies including CETESB, São Paulo, INEA, Rio de Janeiro and FEAM, Minas Gerais on the applicability of Ecological Risk Assessment as a sustainable approach in the management of contaminated sites. Further, Karin has also given lectures for two private clients including Petrobras and Vale. The lectures were very well received and they were an important step in the dissemination of the methodology in Brazil and places ERM as a leader in the field in Brazil.



Japan

Kazuhiro Takagi

Upper senior researcher
National Institute for Agro-Environmental Sciences (NIAES) &
Professor
Graduate School of Agricultural Chemistry Tokyo University of
Agriculture

Diploma, Degree, and Scientific Award

1981-1986: Tottori Univ., Department of Agro-chemistry, Bachelor's degree (B. Agr.)

1983-1984: Visiting student, Univ. of Kiel, Faculty of Agriculture, Kiel, W-Germany)

1986-1988: The Univ. of Tokyo, Department of Agro-chemistry, Master's degree (M. Agr.):

1989-1991: The Univ. of Tokyo, Department of Agro-chemistry, Doctor of Agriculture, (Ph.D.)

2002: The Takeda Techno-Entrepreneurship Award, The Takeda Foundation.

2006: Poster Award (Silver Prize), 11th IUPAC International Congress of Pesticide Chemistry.

Professional Research and Teaching Experiences

1991-1993: Postdoctoral fellow in E.C., Bayer AG, Institute for Environmental Biology, Monheim, Germany

1993 -1996: Research Scientist, National Institute of Agro-Environmental Sciences, Tsukuba, Japan

1996-2001: Senior Research Scientist, Department of Agro-chemicals, National Institute of
Agro-Environmental Sciences, Tsukuba, Japan

2001-2012: Senior Research Scientist, Organochemicals Division, National Institute for Agro-Environmental
Sciences, Tsukuba, Japan

2000- present: Lecturer, Department of Applied Biology and Biochemistry, Tokyo Univ. of Agriculture, Tokyo,
Japan

2005-2007 : Associate Professor, Graduate School of Agricultural Chemistry, Tokyo Univ. of Agriculture, Tokyo,
Japan

2007-present: Professor, Graduate School of Agricultural Chemistry, Tokyo Univ. of Agriculture, Tokyo, Japan

2012-present: Upper Senior Researcher, Organochemicals Division, National Institute for
Agro-Environmental Sciences, Tsukuba, Japan



USA

Kung-Hui Chu

Associate Professor
Texas A&M University

Kung-Hui (Bella) Chu is as an Associate Professor of the Zachry Department of Civil Engineering at Texas A&M University. She received a M.S. degree from Cornell University and a Ph.D. degree from University of California at Berkeley. Dr. Chu is also a registered Professional Engineer in the State of California and in Taiwan, R.O.C. Dr. Chu's research interests include (i) biodegradation of emerging contaminants, (ii) bioremediation of persistent organics, (iii) challenges related to water reuse and recycle, (iv) biosensing, and (iv) production of bioenergy.



Germany

Marc Söllner

Senior Environmental Scientist
URS Corporation, Germany

Mr. Marc Soellner is remediation practice lead for Germany and senior environmental scientist of URS Corporation, Germany. Marc has 17 years of professional experience in the environmental field, now specializing in contaminated land remediation with a key focus on innovative treatment technologies. He serves as technical advisor on remediation projects in Germany, Europe, USA, Taiwan, and China. Marc received a MSc in Chemistry and a MSc in Environmental Management. During his professional career, he lived and worked in the USA between 1999 and 2010.



Australia

Nanthi Bolan

Chair in Environmental Sciences
URS Corporation, Germany
University of South Australia

Professor Nanthi Bolan is the Chair in Environmental Science at the University of South Australia. He has served as the Dean of Graduate Studies and also as the leader of CRC CARE Programme on Prevention Technologies. His teaching and research interests include soil acidification, nutrient cycling, pesticide and metal pollutants interactions in soils, soil remediation and waste management. Nanthi is a Fellow of American Soil Science Society and New Zealand Soil Science Society. He has supervised more than 50 postgraduate students, and was awarded the Massey University Research Medal for excellence in supervision. He has published more than 150 papers is currently serving as the Associate Editor of Critical Reviews in Environmental Science and Technology.



Invited Speakers



USA

Rebecca Chou

Section Chief of Groundwater Permitting and Land Disposal
Regional Water Quality Control Board – Los Angeles Region
California Environmental Protection Agency

Dr. Chou is currently the Section Chief of Groundwater Permitting and Land Disposal at the California Environmental Protection Agency (EPA), Regional Water Quality Control Board (RWQCB), Los Angeles Region. She had approximately 30-year experience in Environmental testing, Environmental investigations and cleanups, enforcement and permitting for surface water and groundwater, and environmental guidelines and protocols development. I also worked as Branch Chief of School Program and Cleanup Operations, Department of Toxic Substances Control, California EPA from 2006 to 2008, Unit Chief of Site Cleanup, RWQCB from 1992 to 2006, and Lab Director, GTEL Environmental Laboratories in Torrance from 1987 to 1992. Dr. Chou's education background includes Ph.D. in Civil Engineering and M.S. in Environmental Engineering from University of Southern California, B.S. in Chemistry from Providence University in Taiwan. She is registered in California as Professional Engineer in Civil Engineering, License # C53162, in 1995. She have been serving as the board member and president of the Southern California Chinese American Environmental Protection Association (SCCAEPA) since 2007 and 2014, respectively. Since then, she have been actively promoting SCCAEPAs internationally.



Australia

Sophie A. Wood

Partner
ERM Australia Pty Ltd

Dr Wood is a specialist in health and environmental risk assessment, with over 20 years experience in this field. She studied geology at the University of Cambridge in England, and gained her PhD in geochemistry from the University of Leeds. Dr Wood is currently ERM's global practice leader for risk assessment. In 2009 she led ERM's work in drafting the revisions to Schedules B4 and B7 of the National Environmental Protection (Assessment of Site Contamination) Measure 2013, and she was a member of the technical working group for CRC CARE's recent guideline on petroleum vapour intrusion. Dr Wood is a NSW Accredited Site Auditor. She is currently based in Sydney, Australia.



Korea

Young-Sik Ok

Full Professor and Director
Kangwon National University

Professor Ok is Full Professor and Director of Korea Biochar Research Center at the Kangwon National University in Korea. Prof. Ok is currently serving as editors of Journal of Soils and Sediment, Environmental Geochemistry and Health, and Canadian Journal of Soil Science. Prof. Ok also served as guest editors of internationally recognized journals such as Bioresource Technology, Chemosphere, Plant and Soil, etc. Prof. Ok served as Visiting Professor at Department of Renewable Resources, University of Alberta, Canada from June 2013 to June 2014. Prof. Ok has published 250+ journal articles and organized 10+ international conferences such as CLEAR 2014.



Invited Moderators



Taiwan

Chih Huang

Principal Consultant
ERM-Taiwan

Dr. Huang joined Environmental Resources Management (ERM) as a principal consultant in 2012. Before joining ERM, he had worked a senior researcher in Sinotech Engineering Consultants, Inc. (Taiwan). He has over 15 years of experience in soil and groundwater and contaminated site management. Dr. Huang has managed and conducted variety site investigation, soil and groundwater remediation, risk assessment, and environmental policy study for both public and private sectors. He has also assisted in remediation projects resulting in the first control site and remediation sites delisted in Taiwan. He has helped Taiwan EPA in contaminate sites risk assessment framework implementation and consultation since 2006. Dr. Huang has actively engaged in domestic brown field policy and program including framework and regulatory design and implementation as well as future deployment strategies planning for Taiwan Environmental Administration.



Taiwan

Chitsan Lin

Professor
Department of Marine Environmental Engineering
Kaohsiung Marine University



Taiwan

Colin S. Chen

Professor
Department of Biotechnology
National Kaohsiung Normal University

Dr. Colin S. Chen is currently a professor in Department of Biotechnology, National Kaohsiung Normal University. He got his B.S. from National Taiwan University. He received his M.S. and Ph.D. degrees from Department of Environmental Engineering Sciences, University of Florida, USA. He was a senior environmental scientist in Exposure and Risk Assessment Division, Versa, Inc, Washington, D.C. He oversaw projects in ecological risk assessment and fate and transport of organic contaminants. His research interests is in the area of developing soil and groundwater remediation techniques, fate and transport of organic pollutants in the subsurface environment, ecological risk assessment of rivers, pesticides, and contaminated sites, and environmental forensics.



Invited Moderators



Taiwan

Dar-Yuan Lee

Distinguished Professor
Department of Agricultural Chemistry
National Taiwan University

Dr. Dar-Yuan Lee received his Ph.D. degree from Department of Soil and Environmental Sciences, University of California, Riverside. He is the Distinguished Professor of Department of Agricultural Chemistry, National Taiwan University (NTU) and former President of Chinese Society of Soil and Fertilizer Sciences (Taiwan). His researches focus on chemistry of trace elements in soils, remediation of heavy metal contaminated soils, and spatial variability of soil properties and Geostatistics. He served as Head of Department of Agricultural Chemistry, NTU, Associate Editor of Journal of Environmental Quality, Secretary General of ESAFS, and International Committee Member of International Society for Trace Element Biogeochemistry. Dr. Lee was awarded Distinguished Research Award, National Science Council, Taiwan, and Distinguished Teaching Award, NTU.



Taiwan

Gordon C. C. Yang

Professor
Institute of Environmental Engineering
National Sun Yat-Sen University

Educational Background:

B.S.E., Department of Mining & Metallurgical Engineering, National Cheng-Kung University (1974)

M.S., Department of Mineral Engineering, University of Alaska, Fairbanks (1979)

Ph.D., Department of Materials Science and Mineral Engineering, University of California, Berkeley (1983)

Work Experiences:

Assistant Researcher, Mining Research and Service Organization, Industrial Technology Research Institute (1976-1977)

Postdoctoral Fellow, Ames Laboratory-U.S. Department of Energy, Iowa (1984-1986)

Manager, Firmtel Inc., California (1986-1988)

Research Scientist, Energy & Resources Laboratories, Industrial Technology Research Institute (1988-1991)

Associate Professor, Institute of Environmental Engineering, National Sun Yat-Sen University (1991-1994)

Director, Institute of Environmental Engineering, National Sun Yat-Sen University (1997-2000)

Professor, Institute of Environmental Engineering, National Sun Yat-Sen University (1994-Present)



Taiwan

Kuei-Jyum Yeh

Professor

Department of Environmental Science and Engineering
National Pingtung University of Science and Technology



Taiwan

Lambert L. Ding

Associate Professor

Department of Chemical and Materials Engineering
Lunghwa University of Science and Technology



Taiwan

Ming-Daw Che

Vice Chairman

Apollo Technology Co., Ltd.

Dr. Che currently serves as vice chairman of Apollo Technology, a leading environmental consulting and engineering firm in Taiwan. He is also the senior adviser of energy technology at Taiwan Development Institute and a consulting expert of Taiwan's EPA and BOE for making environmental and energy related regulations. Dr. Che was formerly the CTO of Environment and Development Foundation, and the laboratory director and senior manager of Energy and Resource Laboratory at Industrial Technology Research Institute, the largest nonprofit research organization in Taiwan. Dr. Che earned his PhD in Environmental Science from The Ohio State University in 1991.



Taiwan

Shian-Chee Wu

Professor

Graduate Institute of Environmental Engineering,
National Taiwan University

After graduated from the Department of Agricultural Chemistry, National Taiwan University in 1974, Dr. Wu joined in a fine chemical company and later moved to the Sanitary Engineering Department, Taipei City Government as an engineer. In 1979 Dr. Wu got master degree from the Graduate Institute of Environmental Engineering, NTU in 1981. In the same year, Dr. Wu went to MIT. He got his PhD degree of Civil Engineering in 1986 and has been teaching in the Graduate Institute of Environmental Engineering, NTU since then. He had also been serving in EPAROC as a member of EIA Committee, a member of Soil and Groundwater Clean-up Fund Committee, in Ministry of Education as the Secretary of Environmental Protection Division, and for international journals as a reviewer or an editor.



Invited Moderators



Taiwan

Shih-Cheng Pan

President

Sinotech Environmental Technology, Ltd.

Dr. Shih-Cheng Pan received his Ph.D. degree in Environmental Engineering from National Central University. He is currently the General Manager of Sinotech Engineering Consultants Ltd.. Dr. Pan owned many years of field experience in the investigation and remediation of soil and groundwater contaminated sites related to chlorinated solvent and petroleum contamination. He also conducted several projects for Taiwan EPA including regional groundwater monitoring, and the investigation of military and aviation sites.



Taiwan

Spock Huang

Regional Director of Greater China

MWH Taiwan Branch, Americas Inc

MWH Environmental Engineering (Shanghai) Co., Ltd

Spock oversees the overall operation of MWH Taiwan and MWH China G&I. He is a water and wastewater process expert with over 20-year experience. His fortes are including planning and design of water treatment work, sewer pipeline and treatment work, industrial wastewater treatment facility and life support system (LSS) of sea world and aquarium. He also has considerable experience in advanced water and wastewater treatment in terms of ozonation, activated carbon filtration, softening (pellet reactor), membrane technology (for seawater desalination, wastewater reclamation and reuse) and biological nutrients (N&P) removal.



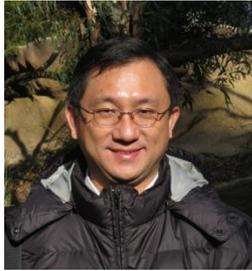
Taiwan

Ting-Nien Wu

Associate Professor

Department of Environmental Engineering

Kun Shan University



Taiwan

Zeng-Yei Hseu

Professor

Department of Environmental Science and Engineering
National Pingtung University of Science and Technology

Professor Hseu has professional specialty in researching soil science, soil investment, contamination management, and ecology of agriculture environment, especially in characteristic of tropical red soil, heavy metal contamination in farmland, estimating crop security, and develop reuse waste material into compost. There have been many research achievements going beyond 30 journal papers and 50 conference papers by professor hseu's hard efforts. Also, he has trained 2 doctors and almost 30 masters to invest in protecting the environment. Professor Hseu actively joins international congresses, attends international seminar in correlation of soil science every year, and publishes research achievements of soil and environmental science in Taiwan, North America, Central America, Europe, Southeast Asia, and Northeast Asia.



Invited Members of ReSAGPAPR



Australia

Tony Circelli

Chief Executive

Environment Protection Authority (South Australia)

Mr Tony Circelli is Chief Executive of the Environment Protection Authority (EPA), the State of South Australia's independent environment regulator. Before being appointed to the position in May 2014, Mr Circelli was Deputy Chief Executive for two years. He has worked in the EPA since its establishment in 1995, holding a variety of senior executive positions, including leading national and state policy and strategy development, operations, and corporate governance functions. Mr Circelli has significance knowledge and experience in regulatory science and building better regulatory practice into EPA policy, operations and organisational culture. He led the regulatory reforms to the Environment Protection Act to introduce site contamination provisions to deal with historic pollution of groundwater and soils, which came into effect in July 2009. He is the current Chair of AELERT (Australasian Environmental Law Enforcement and Regulators network), which aims to advance knowledge, collaboration and harmonisation of better regulatory practice amongst Australian and New Zealand environmental regulators. He is also a member of the Governing Board of the EPA, Presiding Member of the South Australia Radiation Protection Committee, and member of the national Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) Beyond 2020 Committee. Mr Circelli has an honours degree in Mechanical Engineering from the University of Adelaide and a Master of Business Administration from Deakin University. He is a member of the Australian Institute of Company Directors and Fellow of the South Australian Governor's Leadership Foundation



Australia

Andrew Pruszinski

Steering Committee Member of WG ReSAGPAPR

Manager Site Contamination

Environment Protection Authority (South Australia)

Prior to joining the EPA in 2004, Andrew managed the Adelaide environment and planning team for an international consulting firm, SKM. Before consulting, Andrew practiced in both the mining and industrial sectors. Andrew is an adjunct lecturer with the University of South Australia. He is also a member of the Board Research and Technology Committee and the Board Policy Advisory Committee for the CRC CARE (Contamination Assessment and Remediation of the Environment). At the Environment Protection Authority, Andrew has and continues to play a pivotal role in the development and regulation of innovative and risk-based site contamination legislation for South Australia. He is currently the Manager of the EPA's Site Contamination Branch.



Indonesia

Muhammad Ilham Malik

Deputy Minister for Hazardous Substances,
Hazardous Wastes and Solid Wastes Management
Ministry of Environment

Formal Education:

1989 S-1, Environmental Engineering, Bandung Institute of Technology

1999 Master Degree, Environmental Management Science, Florida Institute of Technology, USA

History of Position:

1. Staff Directorate of Air Pollution Control, Environmental Impact Management Agency (BAPEDAL),
2. Deputy Director for Air Source Moving, Air Pollution Control Directorate, Deputy Environmental Pollution Control BAPEDAL 4 of July 2000 - March 25, 2002
3. Division Head of Sector Capacity Building Programme on Local, Regional Deputy Assistant Java and Kalimantan (Deputy Assistant 4 / II), Deputy II KLH March 21, 2002 - 19 September 2002
4. Head of the Regional Capacity Enhancement Deputy Assistant Regional Java and Kalimantan (Deputy Assistant 4 / II), Deputy II KLH 19 September 2002 - June 15, 2004.
5. Head of the Deputy Assistant Program Area Studies (Deputy Assistant 5 / II), Second Deputy Environment, June 15, 2004 - August 1 2005
6. Head of Management of Hazardous and Toxic, Deputy IV KLH 1 August 2005 - October 29, 2007
7. Deputy Assistant for B3 Waste Control Administration, Deputy IV KLH October 29, 2007 - December 22, 2008
8. Deputy Assistant for B3 Institutional, Deputy Environmental Management, Ministry of Environment, December 22, 2008 - October 11, 2010
9. Head of Sumatra Ecoregion Management, Environment, October 11, 2010-26 September, 2014.
10. Deputy Minister for Hazardous and Substance, Hazardous Wastes and Solid Wastes Management, September 26, 2014 - present

Indonesia

Achmad Gunawan

Deputy Assistant for Hazardous Waste Management and
Hazardous Waste Contaminated Remediation
Deputy for Toxic Materials, Hazardous and Solid Waste
Management
Ministry of Environment



Mr. Achmad Gunwan is governmental officer in ministry of environment republic of Indonesia, and Mr. Achmad Gunawan's position is Deputy Assistant for hazardous management and site remediation. His master degree is in the processing and environmental engineering from Technical University of Graz, Austria. Now, He is working as leader in the monitoring of hazardous waste management from many activities including site remediation cause of hazardous waste contamination land. Contamination areas/land is cleaned up from many activities oil/gas and manufacture, etc.



Japan

Osami Sagisaka

Former Director-General of the Environmental Management Bureau,
Ministry of the Environment (2009-2012)
Executive Director of Japan Fire Retardant Association

Mr. Osami Sagisaka was the Director-General of the Environmental Management Bureau in the Ministry of the Environment, Japan from 2009-2012 responsible for soil and underground water contamination, and air quality control. Mr. Sagisaka was overseeing the operationalization of the 2010 revision of the Soil Contamination Countermeasures Act. Mr. Sagisaka directed the policies to remove radioactive contaminated soil in the aftermath of the 2011 East Japan Great Disasters. Mr. Sagisaka joined the Ministry of Home Affairs in 1978 and is currently Executive Director of the Japan Fire Retardant Association.



Japan

Masanori Kobayashi

Steering Committee Member of WG ReSAGPAPR
Fellow
Graduate School of Environment and Information Sciences
Yokohama National University (YNU)

Mr. Masanori Kobayashi is Fellow at the Yokohama National University (YNU) Graduate School of Environment and Information Sciences and Researcher at the Ocean Policy Research Foundation. He has been undertaking research and work on environment and sustainability policy issues through various positions including Associate Professor at YNU (2011 – 2014), Institute for Global Environmental Strategies (IGES, 2004 – 2011) and the Secretariat of the United Nations Convention to Combat Desertification (1997 – 2004). Mr. Kobayashi managed in a capacity building project and current support a pilot project on soil contamination countermeasures through partnership among Thailand, Japan, UNEP, AECEN and USAID.



Korea

Hoe-Seog Cheong

Director General
Water Supply and Sewerage Policy Bureau
Ministry of Environment

Education:

- 2009 Ph. D in Business Administration, Dongguk University (ROK)
- 1995 MA in Environmental Economics, University of London (UK)
- 1987 MA in Policy Science, Seoul National University (ROK)

Major Work Experience:

- Apr. 2014 – Present. Water Supply and Sewerage Policy Bureau (Director General)
- Nov. 2012 – Apr. 2014. Yeongsan River Basin Environmental Office (Administrator)
- Mar. 2012 – Nov. 2012. Environmental Health Policy Bureau (Deputy Director General)
- Mar. 2003 – Mar. 2007. Environmental Health Policy Division, Environmental Office
& Nature Policy Division, Nature Conservation Bureau (Director)



Korea

Jung-Chul Park

Steering Committee Member of WG ReSAGPAPR
Deputy Director
Soil & Groundwater Management Division
Water Supply and Sewerage Policy Office
Ministry of Environment



Invited Members of ReSAGPAPR



Malaysia

Yunus bin Abd Razak

Director General
Minerals and Geoscience Department Malaysia
Ministry of Natural Resources and Environment

Dato' Yunus received his Bachelor of Science in Geology from School of Geology, National University of Malaysia and his Master of Science in Engineering Geology from University of London. He started his career in the Department of Minerals and Geoscience Malaysia (formerly known as Geological Survey Department) in 1979. He assumed various positions in the department prior to his appointment as Director General in 2005.

Dato' Yunus has served as chairperson for various committees such as:

- Steering Committee of the Coordinating Committee for Geoscience Programme in East and Southeast Asia (CCOP) Malaysian National Committee for International Geoscience Programme (IGCP)
- Institute of Geology Malaysia (IGM)
- Geological Society of Malaysia (GSM)

He is also an Honorary Fellow at Institute for Environment and Development (LESTARI), UKM.



Malaysia

Tuan Rusli Mohamed

Steering Committee Member of WG ReSAGPAPR
Deputy Director
Minerals and Geoscience Department Malaysia, Perak
Ministry of Natural Resources and Environment

Mr. Tuan Rusli Mohamed obtained his Bachelor of Science (Geology) degree in 1992 and Master of Science (Engineering Geology) degree in 2009 both from National University of Malaysia. His first job was started in Jun 1992 as Junior Geologist with Kerjaya Belfour Beatty Cementation which was a consortium company dealing with dam and tunneling construction. His career with the Department of Minerals and Geoscience Malaysia was started in December 1993. Since then, He have serviced at three difference offices started with Sarawak State Office as coal exploration geologist until the year 2000. Then, he was transferred to Head Quarters in Kuala Lumpur to serve as Senior Geologist at Human Resource Development Unit under the Corporate Affair Division until year 2008. In 2009, he have got my promotion as Deputy Director (Geosciences) at Perak State Office and keep his service here until today..



New Zealand

Bruce Croucher

Steering Committee Member of WG ReSAGPAPR

Senior Analyst

Administer of Contaminated Sites Remediation Fund

Ministry for the Environment

Mr. Bruce Croucher has over 25 year experience of working within the contaminated land sector. He has worked within the Ministry for the Environment for over 7 years on a variety of work programs including the following: 1. The coordination and administration of the Contaminated Sites Remediation Fund (CSRF). The CSRF assists with the investigation and remediation of priority contaminated, 2. Stakeholder and relationship management with industry, local and central government agencies, and 3. Provision of technical advice to support the development of contaminated land policy and guidance.



Sri Lanka

K.A.I.D. Silva

Steering Committee Member of WG ReSAGPAPR

Director, Air Resources Management and International Relations

Ministry of Environment and Renewable Energy

Mr. K.A.I.D. Silva is environmentalist with twenty five years of experience in the field of wildlife ecology and management, agriculture extension, animal husbandry, natural resource management and biodiversity. He has experience in national level project implementation, national policy management and implementation of national strategies an action plans, coordinating and management of multi-lateral environmental agreements. He carries the responsibility as the focal point for global environmental facility (GEF). Also providing national leadership for regional project management in the projects such as mangroves for the future (MFF) and Bay of Bengal large marine ecosystems (BOBLME), chairing the Sri Lanka national IUCN council. He involved in Preparation of national policies related to environment such as national environment policy, National watershed policy, National biodiversity policy, National climate change adaptation policy, national policy on alien invasive species.



Invited Members of ReSAGPAPR



Taiwan

Kai-Hsing Yang

Scientific Committee Member of WG ReSAGPAPR
Chief
Technology Evaluation Section
Soil and Groundwater Fund Management Board
Environmental Protection Administration

Mr. Kai-Hsing Yang received his Ph. D. degree in environmental engineering from National Taiwan University. He is the chief of technology evaluation section of Soil and Groundwater Fund Management Board, Taiwan EPA. His specialties are environmental planning and management, investigation, remediation and management of soil, groundwater and sediment, and the construction, operation and management of incinerators..



Taiwan

Hao-Chun Hung

Service and Communication Committee Member of WG
ReSAGPAPR
Senior Environmental Technology Specialist
Soil and Groundwater Remediation Fund Management Board
Environmental Protection Administration

Dr. Hao-Chun Hung received his Ph.D. degree from Department of Civil and Environmental Engineering, University of Wisconsin-Madison, USA. Currently he is a senior Environmental Technology Specialist of the Soil and Ground- water Remediation Fund Management Board of Taiwan EPA.



Discover Taiwan



(Derived from Tourism Bureau <http://eng.taiwan.net.tw/m1.aspx?sNO=0000202>)

General Information

Taiwan's total land area is about 36,000 square kilometers (14,400 square miles). It is shaped like a leaf that is narrow at both ends. It lies off the southeastern coast of mainland Asia, across the Taiwan Strait from China-- an island on the western edge of the Pacific Ocean. To the north is Japan; to the south is the Philippines. Many airlines fly to Taiwan, making it the perfect travel destination.



Taiwan lies on the western edge of the Pacific "rim of fire," and continuous tectonic movements have created majestic peaks, rolling hills and plains, basins, coastlines, and other natural landscapes. Taiwan's tropical, sub-tropical, and temperate climates provide clear differentiation between the different seasons. There are rare or endangered species of wildlife on the island. Among these are the land-locked salmon, Taiwan serow, Formosan rock monkey, Formosan black bear, blue magpie, Mikado pheasant, and Hsuehshan grass lizard.

The Taiwan government has established 8 national parks and 13 national scenic areas to preserve Taiwan's best natural ecological environment and cultural sites. There are various

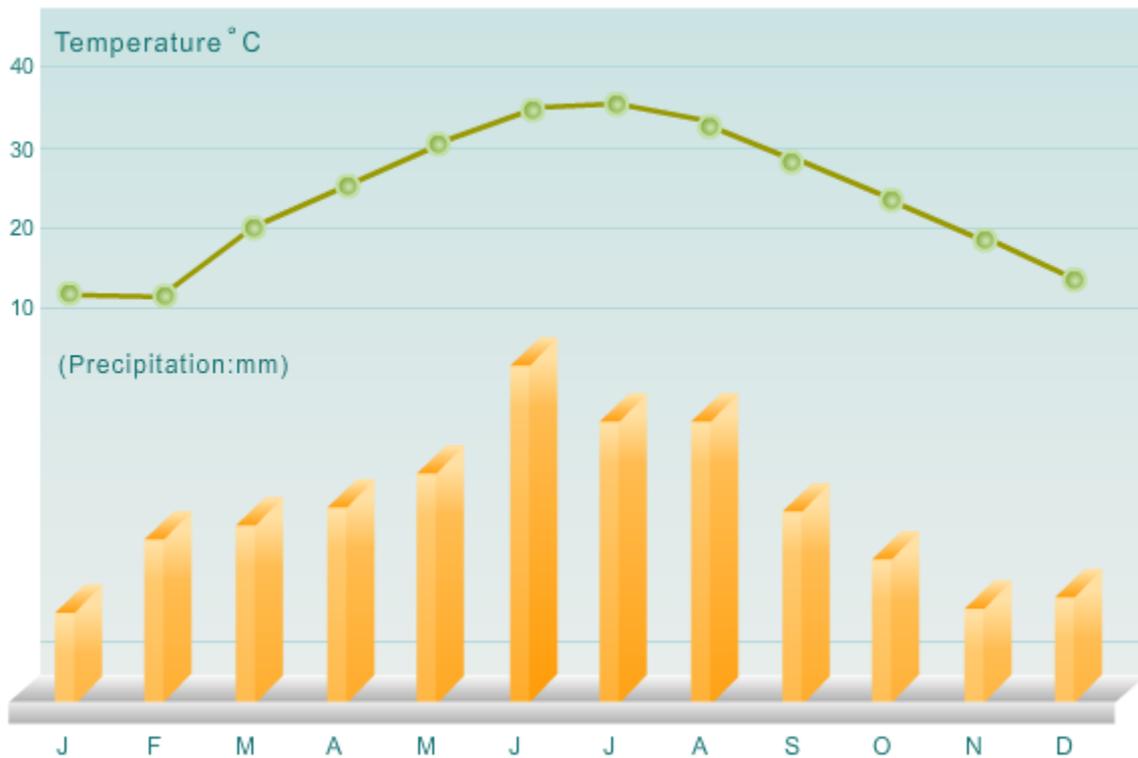


Discover Taiwan

ways to discover the beauty of Taiwan. For example, trekking in the magnificence of the cliffs at Taroko Gorge; taking a ride on the Alishan Forest Railway and experiencing the breathtaking sunrise and sea of clouds; hiking up to the summit of Northeast Asia's highest peak, Yu Mountain (Yushan). You can also soak up the sun in Kending (Kenting), Asia's version of Hawaii; stand at the edge of Sun Moon Lake; wander through the East Rift Valley; or visit the offshore islands of Kinmen and Penghu. It's fun in capital letters as well as an awesome journey of natural discovery!

Climate

If you are from a low-latitude country, you will certainly revel in the comfortable warmth of Taiwan's sun. The coolness that hangs in the air will be a welcome change from the simmering heat of your native country. You can do some hiking in the mountains, immersing yourself in the beautiful trees of the forest while inhaling the pure and fresh air that blows across the island of Taiwan.



Taiwan enjoys warm weather all year round. Weather conditions fluctuate during spring and winter, while in summer and autumn the weather is relatively stable. Taiwan is extremely suitable for traveling, as the annual average temperature is a comfortable 22 degrees Celsius with the lowest temperatures on the lowlands generally ranging from 12 to 17 degrees Celsius (54-63 Fahrenheit). Therefore, with the exception of a few mountain areas where some traces of snow can be found during winter, no snow can be seen in Taiwan. During raining season (March to May), continuously drizzling rain will sometimes fall on Taiwan. When visiting Taiwan during this period, remember to carry an umbrella at all time. Although it might seem romantic to have a stroll in the rain, it is no fun to travel when you're soaking



wet. During the summer time (June to August), typhoons sometimes approach or hit the country.

We suggest you keep an eye on weather reports, because weather conditions are often severe and unpredictable when typhoons hit Taiwan. In addition, the roaring waves along the coast are not to be regarded as one of Taiwan's tourist scenes. During the autumn (September to October), you can wholeheartedly enjoy the cool and comforting weather, while Taiwan's relatively warm and short winters (November to February) are the time for you to appreciate the beautifully colored maple trees. The cold fronts that reach Taiwan sporadically are greatly favored by the island's hot-spring lovers. In short, Taiwan, where it always seems to be spring, is your perfect travel destination!

Natural Environment



Formosa (beautiful island)

Formosa is what the Portuguese called Taiwan when they came here in the 16th century and saw the verdant beauty of the island.

Located off the southeast coast of the Asian Continent at the western edge of the Pacific Ocean, between Japan and the Philippines and right in the center of the East-Asian island arc, Taiwan forms a vital line of communication in the Asia-Pacific region. It covers an

area of approximately 36,000 square kilometers (14,400 square miles) and is longer than it is wide. Two-thirds of the total area is covered by forested mountains and the remaining area consists of hilly country, platforms and highlands, coastal plains and basins. The Central Mountain Range stretches along the entire country from north to south, thus forming a natural line of demarcation for rivers on the eastern and western sides of the island. On the west side, lies the Yushan (Yu Mountain) Range with its main peak reaching 3,952 meters, the highest mountain peak in Northeast Asia.

Ecotourism

If you want to know how beautiful Taiwan really is, you have to come and see for yourself. You will be amazed at the diversity of ancient species this beautiful and relatively young island has to offer. Come and explore its numerous mountains, forests, wetlands and oceans, and find an incredible collection of natural ecosystems.

Taiwan lies off the southeast coast of the Asian Continent, where the tropical and subtropical zones come together. Surrounded by the sea and dominated by high mountains created by tectonic action over the eons, the country features a full range of climates and terrains from the tropical to the frigid. The variations in weather, geology, and elevation give Taiwan an unparalleled richness of flora and fauna, including many endemic species that are found nowhere else in the world. Taiwan is, in fact, a northern-hemisphere microcosm and natural



Discover Taiwan

treasure house that, truly, must be seen to be believed.

Gourmet Cuisine

Taiwan can be termed a melting pot of all the great culinary traditions, both Chinese and foreign. In any town, city, or village in this country, it is said, there is a snack shop within three steps and a large restaurant within five, making dining in Taiwan a matter of the utmost convenience. All of China's regional culinary styles are available, from those of Beijing, Tianjing, and Shandong of the north to those of Sichuan, Hunan, Jiangsu, Zhejiang, Guangdong, and Taiwan in the south. You can also find restaurants in Taiwan that serve the cuisines of other countries all over the world, including the United States, France, Germany, Italy, Japan, Korea, Thailand, Vietnam, and India, among others. The famous international fast-food and restaurant chain--McDonald's, KFC, Mos Burger, Pizza Hut, and others--also have outlets scattered all over the main cities. Taiwan also offers its own unique types of restaurant, such as vegetarian, "improved" hot pot (including medicinal hot pot), and local snacks, that offer a native Taiwanese taste. If you would like to have a drink before or after your meal, there are plenty of bars, pubs, and beer houses to choose from.



Literature and Art

If you want to observe the multifaceted manifestations of 5,000 years of culture, or feel for yourself the joy and harmony of life in a heterogeneous society, then a tour of Taiwan is just what you need.

Perhaps the best thing about experiencing the endless variety of Taiwan's cultural and artistic wonders is that whatever you like, whether it be folk festivals, religious practices, traditional skills, or modern art, everything is right at hand. You can find expressions of the country's rich and varied arts on every street and lane, and in the lives of the people. And every part of Taiwan - north, center, south, and east, and even the offshore islands - presents its own unique local characteristics, profoundly different yet centered on a common cultural core. This is the source of Taiwan's magnetic allure.





Night Markets



Next to these Chinese delicacies, the enormous variety of typical Taiwanese snacks is unique in the world and most perfectly illustrates the important place that the food culture takes into the lives of the Taiwanese people. Famous and unique Taiwanese snacks range from oyster omelets to fried rice noodles, tempura, Tainan Danzai noodles, Taiwanese spring rolls, rice tube pudding, and braised pork rice. Food is cheap and delicious, and by no means inferior, while each specialty gives you an insight in the people of the area it originates from.

Typical Taiwanese snacks are found everywhere, but Taiwan's night markets in particular, each night market having its own traditions and characteristics, are the places where these snacks can be found in abundance. Trying out these snacks, tourists will be able to learn about different specialties, cultures and people from different areas, adding a whole new perspective to traveling.

Tour of Taipei City

Taipei is Taiwan's largest city as well as its economic, political, and cultural center. It is a modern cosmopolitan metropolis with a lively and diversified face, filled with exuberance.

A City of Smiles

From the world's tallest building to the biggest collection of Chinese art, Taipei invites you into a world of fascinating contrasts—a mix of the modern and traditional, with a generous dash of energy and friendly smiles to make this one of your most memorable trips to Asia.



The cultural kaleidoscope of Taiwan's capital city pulses wherever you go. Incense-veiled temples dating back to dynastic times blend seamlessly with a neon street life of a decidedly more modern era. Taipei has dozens of world-class restaurants where gourmets can sample the best regional Chinese cuisine; and for the gourmand, there are plenty of night markets serving up scrumptious evening snacks in an environment of chaotic excitement and fun.



Discover Taiwan

The polarities of Taipei are vividly present as well in the joining of the urban and natural. Just a few minutes from the heart of the city you can soak away the cares of the world in mineral-rich hot springs nestled in the lush mountain foothills ringing the Taipei Basin. And throughout the city there are plenty of trails, parks and other oases of tranquility to lift and invigorate your spirits.

Whether you're just stopping over en route to another Asian destination, or planning a longer stay, Taipei is a many-faceted treasure that will call you back again and again.

Discover the heart of Asia in beautiful Taipei!



Taipei 101

<http://www.taipei-101.com.tw/en/index.aspx>

Located within Taipei 101, the Taipei 101 Mall gathers the world top brands to create a high-end shopping experience. Level 4 of the mall features Singapore-based bookstore Page One and Taipei largest indoor cafe and restaurant area.



Mengjia Local History Tour -- Longshan Temple

<http://www.lungshan.org.tw/en/index.php>

The neighborhood by Longshan Temple is the oldest part of Taipei City. Guiyang Street, once known as "Sweet Potato Market Street," is known as the first street of Taipei. Over 300 years after its first construction, Longshan Temple remains an impressive sight today. The temple is richly adorned with carved and painted beams and elaborate plafonds presenting Taiwan's traditional craftsmanship in all of its beauty. Herb Lane, next to the temple, is a great place to shop for fresh herbs and enjoy herbal tea. Make sure also to enjoy the traditional cuisine and snacks at Huaxi Street Night Market



Ximen Pop Culture & Heritage Tour-- Zhongshan Hall

http://www.redhouse.org.tw/index_en.aspx

There is no better time or place to experience the energy of Taipei's youth subculture than on a weekend day at the Ximending shopping district. Visitors to this area should also check out the historical Zhongshan Hall and Red House Theater, both of which have been fully restored to their original splendor. In addition to experiencing Taiwan's old-time movie culture, make time to visit Tattoo Street, American Street and the weekend art market to soak up the full vitality of Ximending.



National Chiang Kai-shek Memorial Hall

<http://www.cksmh.gov.tw/eng/>

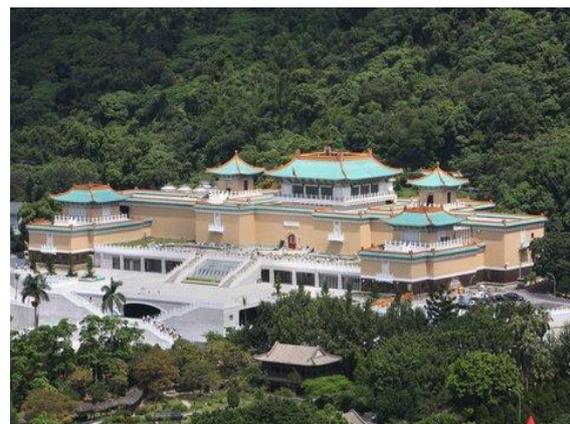
This memorial hall was built in memory of Chiang Kai-shek, the first president of the Republic of China. Work on the hall began in 1976, a year after President Chiang passed away. Design by C.C. Yang, who was also the architect for The Grand Hotel, the memorial hall is white with a blue roof, representing the dominant colors in the ROC flag; while the emblem of the

Chinese Nationalist Party (KMT) adorns the vaulted ceiling. A bronze statue of Chiang looks west symbolically to the Presidential Office Building and mainland China. The front plaza of the hall is also a major venue for democratic assemblies..

National Palace Museum

The Taipei National Palace Museum is a world-class museum that hosts an eclectic collection of treasures kept by generations of Emperors ruling from the Forbidden City. In WWII, Nationalist troops seized the most important pieces in order to prevent invaders from ransacking China's national treasures. A twist of fate eventually brought these treasures to Taiwan.

The Taipei National Palace Museum is designed in the style of a Northern Chinese palace. The museum is home to hundreds of thousands of historical relics that make up the world's most comprehensive and precious collection of ancient Chinese artifacts. The entire collection covers 5,000 years of China's historical and artistic achievements





List of Participants (total 647 person)

(Listed on Nov. 17)

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CHANG	Chih-Shang	張至上	Capla Engineering Consultants Co., Ltd.
CHANG	Christine	張淳淳	National Taiwan University
CHANG	De-Wei	張德威	AECOM
CHANG	Hsiao-Wei	張筱薇	Taiwan Power Company
CHANG	Jessica	張凱茹	ERM Taiwan
CHANG	Liang-Cheng	張良正	National Chiao Tung University
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CHAO	Pei-Hsien	趙倍賢	Cheng Shiu University
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CHEN	Chien-Yen	陳建易	National Chung Cheng University
CHEN	Chih-Lung	陳智隆	Institute of Nuclear Energy Research
CHEN	Chiling	陳琦玲	Taiwan Agricultural Research Institute, COA
CHEN	Chiu-Yang	陳秋楊	Ming Chi University of Technology
CHEN	Chu-Man	陳祝滿	Maolin National Scenic Area
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CHEN	Po-Chuan	陳伯全	Gia Fong Environmental Science Corporation
CHEN	Po-Jung	陳柏榮	Texas Instruments



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CHENG	Shu-Fen	程淑芬	Chaoyang University of Technology
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CHIEN	Wei-Chun	簡偉駿	Institute of Nuclear Energy Research
CHIH	Che-Yu	池哲宇	National Chaoyi University
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