

# Forum at a Glance

	Thursday, August 7, 2014		Friday, August 8, 2014		Saturday, August 9, 2014	
				Site visit Trip 3		
8am						
			Site Visits Trip 1, 2, 4	7:30am-4:30pm San Diego		Job Fair and Expo  8:30am-5:00pm San Gabriel Hilton
9am					Platform Sessions Session 4, 5, 6	
	Poster Session 9:30am-5:30pm San Gabriel Hilton	General Session 9:30am-12:00pm San Gabriel Hilton	8:30am-4:30pm Sites addresses vary		9:00am-12:00pm San Gabriel Hilton	
10am						
11am						
12pm						
		Luncheon Presentation 12:30pm-1:30pm			Luncheon Presentation 12:30pm-1:30pm	
1pm						
2pm		Platform Sessions Session 1, 2, 3			Platform Sessions Session 7, 8, 9	
3pm		2:00pm-5pm San Gabriel Hilton			2:00pm-5:00pm San Gabriel Hilton	
4pm						
			Networking Social Dinner			
5pm			4:30pm-9:00pm Rancho Duarte Golf Course			
6pm	Forum Welcome Dinner 6:00pm-8:00pm New Capital Seafood Restaurant					
8pm						

San Gabriel Hilton: 225 W Valley Blvd, San Gabriel, CA 91776. (626) 270-2700

Rancho Duarte Golf Course: 1000 Las Lomas Rd, Duarte, CA 91010. (626) 357-9981



## Preliminary Program

# 2014 Los Angeles Environmental Forum

Presented By

Southern California Chinese American Environmental Protection Association (SCCAEPA)



**August 7 – 14, 2014**

**Hilton Los Angeles/San Gabriel**

225 West Valley Boulevard,  
San Gabriel, California 91776

### **General Session**

**(9:30 am—12:00 pm, August 7, 2014)**

- 9:30** Weixing Tong, Ph.D., Chair of Forum Steering Committee  
Rebecca Chou, Ph.D., President of SCCAEPA
- 9:40** Judy Chu, Ph.D., US Congresswoman, CA-27 (to be confirmed)
- 10:00** Kuo-Yen Wei, Ph.D., Taiwan Environmental Protection Administration  
"Management of Contaminated Sediments"
- 10:20** Elaine Chang, D.Env., South Coast Air Quality Management District, California  
"Emerging Air Quality Issues and Challenges"
- 10:40** Dora Chiang, Ph.D., P.E., AECOM  
"Complex chlorinated VOC Sites — US Experiences"
- 11:00 — 11:10 Break**
- 11:10** Keynote Speech — Zhong Ma, Ph.D., Renmin University of China  
"Water Pricing: Cost or Benefit"
- 11:55** Eric Wu., Ph.D., Deputy Chair of Forum Steering Committee

### **LUNCHEON PRESENTATION (12:30 — 1:10 PM)**

**"California's Water Future: a Drought Proofing Strategy"**

Richard Atwater, Executive Officer, Southern California Water Committee

Support and Co-organizer Agencies: U.S. EPA Region IX, Cal EPA-Los Angeles Regional Water Quality Control Board, San Diego Regional Water Quality Control Board, and California State University at Long Beach

Thursday, August 7, 2- 5pm

Sessions Run Concurrently

**TECHNICAL SESSION 1:**

**Soil, Water and Resource**

**Moderators:**

Walter Den (鄧宗禹); Yan Qu (曲燕)

**2:00 The Occurrence and Phototransformation of Controlled and Chemotherapeutic Drugs in Aqueous Environments in Taiwan**

Angela Yu-Chen Lin, National Taiwan University

**2:30 Behavior of Veterinary Antibiotics with Corresponding Resistance Genes from Swine Wastewater in Pilot-scale Constructed Wetlands**

Chaoxiang Liu, Institute of Urban Environment, Chinese Academy of Sciences

**3:30 Phenol Tolerance and Degradation by Spirulina Maxima**

Walter Den, Tunghai University

**4:00 Kinetic Study of the Removal of Dimethyl Phthalate from an Aqueous Solution Using an Anion Exchange Resin**

Zhengwen Xu, Nanjing University of Information Science & Technology

**4:30 A Self-Contained, PV-Powered Domestic Toilet and Waste Water Disinfection System**

Yan Qu, California Institute of Technology

**TECHNICAL SESSION 2:**

**Soil, Water and Resource**

**Moderators:**

Yanqing Wu (仵彦卿); Scarlett Zhai (翟喜红)

**2:00 Introduction of the Current Situation of China Field Remediation and Case Studies**

Wei Sun, Beijing GeoEnviron Engineering & Technology, Inc

**2:30 Prevention of Cross Contamination during Installation of Groundwater Monitoring Well**

Weixing Tong, Los Angeles Regional Water Quality Control Board

**3:30 Numerical Simulation for Groundwater Contaminant Remediation**

Yanqing Wu, Shanghai Jiao Tong university

**4:00 Heavy Metal Contamination Sites -- Case Studies**

Dora Chiang, AECOM

**4:30 Injection of Emulsified Vegetable Oil for In Situ Treatment of Hexavalent Chromium**

Xihong (Scarlett) Zhai, AECOM

**TECHNICAL SESSION 3:**

**Government and Public**

**Moderators:**

Renjie Hu (胡仁杰); Abraham Shu (舒成光)

**2:00 Beneficial Use of Landfill Gas as a Green Energy Source Technical Feasibility of Converting Municipal Solid Waste into Next Generation Biofuels and Biomaterials**

Ming Zhu, Geosyntec Consultants

**2:30 National Pollutant Discharge Elimination System and Public Health: an Update**

Renjie Hu, California Department of Public Health

**3:30 Technical Feasibility of Converting Municipal Solid Waste into Next Generation Biofuels and Biomaterials**

Shao-Yuan LEU, Hong Kong Polytechnic University

**4:00 An Brief Overview of the Waste-to-energy Application in the Western and Asian Countries and an Introduction of the Program for the Complete and Comprehensive WTE Knowledge and Technology Training Seminar with Demonstration of Ready-to-use Computer Software**

Abraham Shu, Abraham Shu & Associates, CA, USA

*Coffee Break*

*3:00-3:30 pm*

Friday 8:30 a.m.—4:30 p.m.

Trips Run Concurrently

Direction: Meet in hotel lobby at 8:30 a.m.

(Long pants & walking shoes required!)

**Trip 1**

**Coordinator:**

*Jian Peng, Ph.D.*

*Senior Environmental Scientist*

*Orange County Watersheds Program*

- Orange County Sanitation District Wastewater Treatment Plant  
<http://www.ocsd.com/education/tours.asp>



- Orange County Water District The Groundwater Replenishment System  
<http://www.ocwd.com/>



**Trip 2**

**Coordinator:**

*Yue Rong, Ph.D.*

*Section Chief, Los Angeles Regional Water Quality Control Board, Cal EPA*

- City of Glendale GOU Groundwater Well Head Treatment System (800 Flower St., Glendale, CA 91201)
  1. Chromium VI contamination
  2. VOC contamination
  3. drinking water supply
  
- Site Remediation — Garfield Express leaking underground fuel storage tank site
  1. free product removal
  2. soil vapor extraction
  3. groundwater monitoring
  4. BTEX and VOC comingle plume



Friday 8:30 a.m.—4:30 p.m. Trips Run Concurrently

**Trip 3 (San Diego)**

Direction: Meet in hotel lobby at 7:30 a.m.

**Coordinator:**

*Charles Cheng, Ph.D.*

*Engineering Geologist, San Diego Regional Water Quality Control Board, Cal EPA*

1. San Dieguito Lagoon Restoration Project - this site demonstrates wetland restoration and environmental mitigation projects.



*Degraded San Dieguito Wetlands*

2. La Jolla ASBS (Areas of Special Biological Significance) - this site demonstrate BMPs for storm-water treatment, and have a chance to visit the famous Scripps Institution of Oceanography and La Jolla Cove.



3. San Diego Bay - Learn sediment contamination problems in the Bay (such as PCBs, PAHs and heavy metals), government control strategies, and remedial technologies at several sediment cleanup sites.



Direction: Meet in hotel lobby at 8:30 a.m.

(Long pants & walking shoes required!)

**Trip 4**

**Coordinator:**

*Rebecca Chou, Ph.D., P.E.*

*Section Chief, Los Angeles Regional Water Quality Control Board, Cal EPA*

- Los Angeles County Sanitation District Lab
  1. lab tour
  2. sediment toxicity test
  3. ocean sediment analysis
  4. CEC analysis
  5. ocean sampling



- California Institute of Technology
  1. Historical buildings—President's Residency, Athenaeum (where Albert Einstein stayed), Guggenheim Laboratory (Origin of JPL), and many others
  2. LEED Platinum Certified building tour
  3. Linde Center for Global Environmental Science
 Caltech onsite project - Prototype of Caltech-Gates Foundation project



Saturday, August 9, 9am - 12pm

Sessions Run Concurrently

**TECHNICAL SESSION 4:**

**Soil, Water and Resource**

**Moderators:**

*Cindy Li (李新宇); Hsin-hsin Tung (董心欣)*

**9:00 Water Consumption and Management Analysis for High-Tech Industries in Taiwan**  
Walter Den, Tunghai University

**9:30 Estimation on the Distribution of Heterogeneous Hydraulic Properties through the Influence between River Water Level and Groundwater Table**  
Ko-Wei Lin, National Yunlin University of Science and Technology

**10:00 Formation Kinetics of Trichloronitromethane and Dichloroacetonitrile from Chloramination**  
Hsin-hsin Tung, National Taiwan University

**TECHNICAL SESSION 5:**

**Soil, Water and Resource**

**Moderators:**

*Yiping Cao (曹轶平); Anmin Liu (劉安民)*

**9:00 The Wastewater Treatment's Role in the Integrated Water Resources Management**  
Anmin Liu, AML Engineering Consultants

**9:30 A Comprehensive Study of the Impact of Polycyclic Aromatic Hydrocarbons (PAHs) Contamination on Salt Marsh Plants**  
You-Wei Hong, Institute of Urban Environment, Chinese Academy of Sciences

**10:00 臺灣遠洋船舶岸電之推動**  
Jen-yu Hsu, 瑩諮科技股份有限公司

**TECHNICAL SESSION 6:**

**Air Pollution Controls and Air Quality Monitoring**

**Moderators:**

*Yingdi Liu (劉英迪); Daiqi Ye (叶代起)*

**9:00 Toluene Removal via Plasma Catalysis System with Nickel Oxide Catalysts on Different Supports**  
Junliang Wu, South China University of Technology

**9:30 High Sensitive Optical Spectroscopy Studies of Key Molecules in Tropospheric Chemistry and Secondary Organic Aerosol Formation**  
Yingdi Liu, NASA-Jet Propulsion Lab, California Institute of Technology

**10:00 Historical Industrial Emissions of Non-methane Volatile Organic Compounds in China for the Period of 1980-2010**  
Daiqi Ye, South China University of Technology

*Coffee Break*

*10:30-11:00 am*

**11:00 Groundwater Salinity Management Program in the Santa Ana Region**  
Cindy Li, California Regional Water Quality Control Board - Santa Ana Region

**11:30 The Study of Land Subsidence Disaster Prevention By Groundwater Resources Management – The Case of Groundwater Level Management**  
Chi-Feng Lin (presented by Ko-Wei Lin), National Yunlin University of Science and Technology

**11:00 Water Quality Testing in the Age of Molecular Microbiology**  
Yiping Cao, Southern California Coastal Water Research Project

**11:30 Photocatalytic Degradation Study of C-N-S Tridoped TiO<sub>2</sub>**  
Pengwan Chen, Beijing Institute of Technology

**11:00 Open Burning/Backyard Burning/Uncontrolled Burning**  
Yuan Pao-Chiang, Jackson State University

**LUNCHEON KEYNOTE SPEECH**

**12:30 — 1:10 pm, August 9, 2014**

**Current Status and Future Strategy of Contaminated Site Assessment and Remediation in Taiwan**

***Hung-Teh Tsai***

*Executive Secretary, Taiwan Soil and Groundwater Pollution Remediation Fund Management Board*

Saturday, August 9, 2 - 5pm

Sessions Run Concurrently

**TECHNICAL SESSION 7:**

**Soil, Water and Resource**

**Moderators:**

Jason Wen (温俊山); Jian Peng (彭舰)

**2:00 A New Perspective on Sustainable Urban Landscapes and Development**

Jason Wen, Overseas Chinese Environmental Engineers & Scientists Association

**2:30 Accumulation of Veterinary Antibiotics and Resistance Genes from Swine Wastewater in the Constructed Wetlands Soils**

Jie Liao, College of Environmental Science and Engineering, Xiamen university of Technology

**TECHNICAL SESSION 8:**

**Soil, Water and Resource**

**Moderators:**

Diane Wang (王丹云); Zhong Xiong (熊忠)

**2:00 Comparison of In Situ Chemical Reduction to Enhanced Reductive Dechlorination to Treat TCE**

Daniel Leigh, PeroxyChem

**2:30 In Situ Chemical Reduction for Treatment of Pesticide-impacted Soil**

Stacey Telesz, PeroxyChem

**TECHNICAL SESSION 9:**

**Government and Public**

**Moderators:**

Xin Qian (钱新); Eric Wu (吴基衡)

**2:00 Pilot Studies on Ecological Restoration in Gonghu Bay, Lake Taihu, China**

Xin Qian, Nanjing University

**2:30 Soil Gas Sampling and Analysis with Quality Assurance and Quality Control (QA/QC)**

Yue Rong, State Water Resources Control Board, Los Angeles

**Coffee Break**

**3:00-3:30 pm**

**3:30 Effect of Surface Morphology on Mass Transfer and Fouling Behavior of Reverse Osmosis Membranes Processes**

Yuming Fang, Department of Civil, Environmental and Construction Engineering, University of Central Florida

**4:00 Low Energy Treatment Systems for Stormwater Management: Southern California Case Studies**

Jian Peng, Orange County Watersheds

**3:30 Innovative Use of TarGOST® Screening Technology to Delineate Distribution of Groundwater Remediation Amendment**

Zhong Xiong, Haley & Aldrich, Inc

**4:00 Interactive Evolution between Treatability Study and Remedial Investigation for Remediation of a Methylene Chloride Plume**

Xihong (Scarlett) Zhai, AECOM

**4:30 Effect of the Coexistence of Chlorobenzene Homologue on Anaerobic Degradation of Hexachlorobenzene**

Qi Wang, Beijing Municipal Research Institute of Environmental Protection

**5:00 PAHs Thermal Desorption Behavior of Coking Plant Soil and its Effect on Soil Characteristics**

Tianxiang Xai, Beijing Municipal Research

**3:30 Selective Photodegradation Facilitated by Molecular Imprinting with a Transition State Analogue**

Lihua Zhu, Huazhong University of Science and Technology

**4:00 Watershed Management by Developing Total Maximum Daily Loads (TMDLs)**

Eric Wu, California Environmental Protection Agency

**4:30 Forward Osmosis- An Innovative Application to Water Purification and Desalination**

PengFei Chao, ELS, Inc.

## Symposium Sponsors



## Forum Steering Committee

### Committee Chair

Weixing Tong, Ph.D., R.G., CEG., CHG., Unit Chief, Los Angeles Regional Water Quality Control Board (LARWQCB), Cal/EPA

### Deputy Committee Chair

Eric Wu, Ph.D., P.E., Unit Chief, LARWQCB, Cal/EPA

### Members

- Yiping Cao, Ph.D., Senior Microbiologist, Southern California Coastal Water Research Project
- Donna Chen, Assistant Division Manager, City of Los Angeles Watershed Protection Division
- Charles Cheng, Ph.D., P.G., Engineering Geologist, San Diego RWQCB, Cal EPA
- Rebecca Chou, Ph.D., P.E., Section Chief, LARWQCB, Cal EPA
- Isaac (Xiao) Dai, Permitting Engineer, Avanti Environmental, Inc.
- Tianpeng Guo, Ph.D., P.E., Water Resource Engineer, CH2M Hill
- Cindy Lin, D. Env., Senior Environmental Scientist, US EPA Region IX
- Kun Liu., Ph.D., environmental scientist,
- Jian Peng, Ph.D. Senior Environmental Scientist, Orange County Watersheds Program
- Yan Qu, Ph.D., research post-doctor of CalTech
- Yue Rong, Ph.D., Section Chief, Cal/EPA LARWQCB
- Michael E. Shiang, R.G., CHG, President, ADvTech Environmental, Inc.
- Guangyu Wang., Ph.D., Deputy Director, Santa Monica Bay Restoration Commission
- Jason Wen., Ph.D., P.E., Utility Superintendent, City of Downey
- Ru (Rice) Xiao, Ph.D., Project Engineer, Accord Engineering, Inc
- Zhong Xiong, Ph.D., P.E., Expert, Harley Aldrich
- Xihong (Scarlett) Zhai, Ph.D., Engineer, AECOM
- Peter Zhang, Ph.D., President, ZHTECH Corporation



OVER 10 ENVIRONMENTAL COMPANIES FROM CHINA AND TAIWAN  
OVER 10 MANUFACTURERS AND CONSULTING FIRMS FROM UNITED STATES  
OVER 20 TOP U.S. UNIVERSITIES AND  
OVER 100 CHINESE GRADUATE STUDENTS



LOS ANGELES  
SAN GABRIEL HILTON  
AUGUST 9TH, 2014



SCCAEPA P.O.Box 93268 - City of Industry - CA 91715 - board@sccaepa.org - <http://www.sccaepa.org>

Southern California Chinese American Environmental Protection Association (SCCAEPA)

*Time: 9:00 AM—4:30 PM*

*Location: Ballroom (First floor) San Gabriel Hilton, San Gabriel, CA*

*Registration: online registration at [www.la-ef.org](http://www.la-ef.org)*

*Contact person: Mr. Michael Shiang ([mshiang@advtech.net](mailto:mshiang@advtech.net))*

*Dr. Zhong Xiong ([jxiong@haleyaldrich.com](mailto:jxiong@haleyaldrich.com))*

*Dr. Zhaixihong ([zhaixihong@yahoo.com](mailto:zhaixihong@yahoo.com))*



# 2014 洛杉磯環境論壇

## 專題會議和培訓講座

主辦單位：美國南加州華人環保協會 (SCCAEPA)



### 土壤與地下水污染清理技術和政府管理專題會議

時間：2014年8月11 - 14日

地點：洛杉磯聖蓋博希爾頓大酒店

225 West Valley Boulevard, San Gabriel, California

### 專題會議日程（初稿）

#### 8月 11日 (9:00 am —5:45 pm)

美國加州環保署最新政策介紹：地下水原位修復許可證管理和“加州地下儲油罐低風險結案政策”執行進展（容躍 博士）

輸油管線洩漏污染調查與清理和控制污染命令書案例介紹（林濱）

土壤廢氣入侵—健康風險評估，風險管理，和減緩技術（鄭傳羸 博士）

中國修復領域現狀，項目和技術應用（魏麗）

#### 8月 12日 (9:00 am —5:45 pm)

環境評價和清理的精簡型方法（程廣義 博士）

生物降解在污染場地清理原位修復中的應用（翟喜紅 博士）

利用生物地質化學轉化技術修復受污染的地下水（熊忠 博士）

污染物在不同相中的分配和溶解羽的遷移速度（郭繼汾 博士）

土壤和地下水修復系統設計上的考量（郭繼汾 博士）

#### 8月 13日 (8:00 am —4:30 pm)

1 - 地下儲油罐地下水污染修復項目 — Tuller 清理系統

2 - 聖塔莫尼卡市Charnock 大型地下水井口處理系統

#### 8月 14日 (9:00 am —5:00 pm)

地下水污染的模擬分析（莫展民 博士）

使用SESOIL模型分析土壤污染對地下水的影響（盧軍 博士）

石化生物標誌物痕跡用於原油對比與溯源（盧軍 博士）

輕質非溶性液體的遷移與回收（盧軍 博士）

## 報告講座專家

### 培訓講座主持人：

童衛星博士，加州環保署洛杉磯地區水質管理局高級工程地質師，部門主管  
許仙育博士，加州環保署洛杉磯地區水質管理局地下水許可證和垃圾掩埋場處處長

### 培訓講座報告專家名單：

程廣義博士，美國協和工程公司總裁

郭繼汾博士，加州州立大學富樂屯分校土木與環境工程系教授

莫展民博士，美國GSI環境諮詢公司副總裁

林賓，加州環保署洛杉磯地區水質管理局水資源管理工程師

盧軍博士，美國 AECOM 環境諮詢公司主任工程師

容躍博士，加州環保署洛杉磯地區水質管理局地下儲油罐處處長

魏麗，中國高能時代環境修復有限公司總經理

熊忠博士，美國 Harley Aldrich環境諮詢公司專家

鄭傳羸博士，加州環保署有害物質控制局毒物學家

翟喜紅博士，美國AECOM環境諮詢公司項目工程師