

附錄二、第十一屆洛杉磯環境論壇大會議程

Special Workshop

Date: August 7th, 2018
Special Workshop (9:00 AM - 5:30 PM)

| Time | Topics | Speakers |
|---------------|---|---|
| 09:00 – 09:05 | SCCAEPA LAEF Welcome Remark | WeiXing Tong, Ph.D., P.G., Chairman of LAEF |
| | SCCAEPA Welcome Remark | Eric Wu, Ph.D., P.E. President of SCCAEPA |
| 09:05 – 09:10 | Overview of Air Quality Management and Workshop Organization | Elaine Chang, Dr. PH |
| 10:40 – 11:00 | Break | |
| 11:00 – 12:00 | Air Quality Monitoring and Data Analysis – VOC and Ozone Monitoring | Jianhang Lu, Ph.D. |
| 12:00 – 13:30 | Lunch Break | |
| 13:30 – 14:30 | Air Quality Monitoring and Data Analysis – Instrumentation Development for Air Quality Monitoring | Jingsong Zhang, Ph.D. |
| 14:30 – 15:30 | Mobile Source Programs – Overview | Wei Li, Ph.D. |
| 15:30 – 16:30 | Mobile Source Programs - Portable Emission Measurement System (PEMS) and it's Applications | David Chou, D. Env. |
| | Mobile Source Programs – California Ports Emission Reduction- Near Zero Emission and Zero Emission Technologies | Eddy Huang, Ph.D. |
| 16:30 – 17:30 | | |

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Forum at a Glance

Forum at a Glance

| | 2018/08/07 | 2018/08/08 | 2018/08/09 | 2018/08/10 | 2018/08/11 |
|----------|----------------------------|----------------------------|--|---|---|
| 8:00 AM | | | | Exhibition Hall Opens at 8:00 am | |
| 9:00 AM | | | | | |
| 10:00 AM | | | | Plenary Session 9:30 am - 11:50 am | Platform Sessions A2, B2, C2 9 am - 12 pm |
| 11:00 AM | | | | | |
| 12:00 PM | | | Site Visits Tips 1, 2, and 3 | | |
| 1:00 PM | Workshop 9 am - 5:30 pm | Workshop 9 am - 5:30 pm | 8:30 am - 5:00 pm | Luncheon Presentation 12:20 pm - 1:00 pm | Lunch 12 pm - 1:30 pm |
| 2:00 PM | | | | | |
| 3:00 PM | | | | Platform Session A1 1:30 pm - 4:30 pm | US-China Site Remediation Summit 1:30 pm - 5:40 pm |
| 4:00 PM | | | | | Platform Sessions A3, B3, C3 1:30 pm - 5:00 pm |
| 5:00 PM | | | | | |
| 6:00 PM | | | Network Social BBQ Event at Almansor Park ¹ | | |
| 7:00 PM | | | | Network Social Dinner at Peninsulaer Seafood Restaurant ² 5 pm - 8 pm | |
| 8:00 PM | | | | | |

1. Location of August 9, 2018 Barbeque Event: Almansor Park, 800 S. Almansor Street, Alhambra, CA 91801s
2. Location of August 10, 2018 Network Social Dinner: 半岛海鲜酒家, 140 W Valley Blvd #4D, San Gabriel, CA 91776

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Field Trips

Date: August 9th, 2018

Field Trips (All Day)

| Route 1 Air Quality Management | Route 2 Surface Water Management (Sponge City/LID Projects) | Route 3 Soil and Groundwater Remediation and Environmental Laboratory |
|---|---|---|
| <p>Frank R. Bowerman Landfill Waste-to-energy Facility (垃圾焚燒場与沼气综合利用发电厂)</p> <p>Address: 11002 Bee Canyon Access Rd, Trabuco Canyon, CA 92679</p> <ul style="list-style-type: none"> The Frank R. Bowerman Landfill is a state-of-the-art, Class III, municipal solid waste landfill. Opened in 1990 near Irvine, CA, it is one of the largest landfills in the state and the ninth largest in the U.S. The property spans approximately 725 acres of Irvine hillsides with 534 acres allocated for waste disposal. It is permitted for 11,500 tons per day (TPD) maximum with an 8,500 TPD annual average. The landfill has enough projected capacity to serve residents and businesses until approximately 2053. | <p>Prop. 84 Orange County Public Works Glassell Campus Low Impact Development Project</p> <p>Address: 2301 N. Glassell St, Orange, CA 92665</p> <p>A \$4.6 M project sponsored jointly by State of California and Orange County Public Works for low impact development retrofit of an existing office complex.</p> <ul style="list-style-type: none"> Bioswales; rain barrels; Underground cisterns; flow-through planters; permeable paver/interlocking concrete; modular weirland; treedbox filters; dry well 100% stormwater treatment 85% stormwater on-site retention 95% pollutant load removal Regional center for monitoring LID construction, performance, operations and maintenance. Regional center for LID training, public education, and research | <p>Former J&S Chrome Plating Facility Remediation of Hexavalent Chromium in Soil and Groundwater (J&S 镀锌电镀厂 修复项目 土壤与地下水铬污染修复)</p> <p>Address: 6845 East Florence Place, Bell Gardens, CA 90201</p> <ul style="list-style-type: none"> Excavation of highly contaminated shallow soil Installation galleries to add chemical for deep soil remediation Chemical reduction barrier walls to treat mile-long groundwater plume off-site |
| <p>Lindie Robinson Environmental Science Chamber, CATSCh (加州理工學院空污研究中心)</p> <p>Address: 1200 E California Blvd, Pasadena, CA 91125</p> <p>Lindie Robinson Environmental Science Chamber, California Institute of Technology (CalTech), Prof. John Seinfeld's research chamber/lab. Prof. Seinfeld is a member of National Academy of Science and is the author of the classic textbook "Atmospheric Physical Chemistry".</p> | <p>Lakewood Bolivar Park Stormwater Capture/Water Reuse Project</p> <p>Address: SR12 Arbor Road, Lakewood, CA 90713</p> <ul style="list-style-type: none"> \$11 M project of stormwater capture and reuse for park irrigation Smart sensor technology for a real-time control based on weather forecast and water quality Capture all dry weather and "first flush" of wet-weather flow to meet multiple TMDLs Inflatable rubber dam to store and capture more flow during rain 2.5 MG underground storage capacity and capture 200 MG runoff annually Over 160 MG of runoff will infiltrate into groundwater aquifer for basin recharge | <p>Test America Lab (Irvine)</p> <p>Address: 17461 Derian Avenue, Suite 100, Irvine, CA 92614</p> <p>Test America Laboratories, Inc. is recognized as the leading environmental testing firm in the United States. Operations include a nationwide network of over 90 locations delivering innovative technical expertise and comprehensive analytical testing services.</p> <ul style="list-style-type: none"> One of the largest environmental analysis laboratories in the United States The company has 23 certified laboratories distributed throughout the United States Nearly 2,000 employees Test more than 1000 analytical methods |

Special Workshop

Date: August 8th, 2018
Special Workshop (9:00 AM - 5:30 PM)

| Time | Topics | Speakers |
|---------------|--|--------------------|
| 09:00 - 10:00 | Economic Incentive Programs – Discussion of lessons learned from a cap-and-trade program | Susan Tsai |
| 10:00 - 11:00 | Introduction to U.S. and California Air Quality Permitting Programs - The US EPA's facility-based and California's equipment-based permit programs will be reviewed, along with brief discussions of permit application and evaluation process as well as its underlying rules and regulations | Jay Chen, P.E. |
| 11:00 - 12:00 | Air Quality Law and Enforcement – Discussion of enforcement and litigations | Daphne Hsu, Esq. |
| 12:00 - 13:30 | Lunch Break | |
| 13:30 - 14:30 | Benefit-Cost Considerations in Air Quality Management - Discussion of B/C analysis for policy and regulatory development | Elaine Shen, Ph.D. |
| 14:30 - 15:30 | Air Quality Impact Assessment and Modeling - Discussions of tools, applications, and limitations | Sam Wang, CPP |
| 15:30 - 16:30 | Air Toxic Programs - Health Risk Assessment and Emission Inventory | Robert Wu |
| 16:30 - 17:30 | Open Forum and Discussion | |

US-China Site Remediation Summit

Date: August 10th, 2018

US – China Site Remediation Company Summit
Theme – China Site Remediation Market: Opportunities and Challenges
(1:30 PM - 5:30 PM)

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|--|--|
| 1:30 – 1:40 PM | Moderator welcome remark and dignitary speech by Mr. Zhizhe Zhuang, Deputy Consul General, Consulate General of the People's Republic of China in LA |
| 1:40 – 2:40 PM | Introduce all 20 companies (3 minutes slides or video clip each) |
| 2:40 – 3:10 PM | First Topic: China Site Remediation Market Demand (Mr. Peng Liu) 中国场地修复市场需求 |
| 3:10 – 3:40 PM | Second Topic: Remediation Technology Applications in China (Dr. Zhong Xiong) 场地修复技术在中国的应用 |
| Break (3:40 PM - 4:00 PM) | |
| 4:00 – 4:30 PM | Third Topic: Foreign Remediation Companies' Involvement in China Site Remediation Market (Dr. Xiaosong Jason Chen) 国外修复公司参与中国场地修复市场 |
| 4:30 – 5:00 PM | Fourth Topic: China Current Regulations and Management Procedures on Site Remediation (Dr. Yuyang Gong) 中国现行的污染场地修复法规和管理程序 |
| 5:00 – 5:30 PM | Fifth Topic: Remediation Industry Trend in US and State-of-the Art Technologies (Dr. Jun Lu) 美国的场地修复产业发展趋势和先进修复技术 |
| 5:30 – 5:40 PM | Closure Summary |
| Banquet (6:00 PM - 8:00 PM) | |

Plenary Session and Luncheon Presentation

Date: August 10th, 2018

Plenary Session
(9:30 AM - 12:00 PM)

| | |
|---|--|
| 9:30 AM | Wexing Tong, Ph.D., Chair of Forum Steering Committee |
| 9:40 AM | Eric Wu, Ph.D., President of SCCA/EPA |
| 9:50 AM | Ping Zhang, Consul General, Consulate General of the People's Republic of China in Los Angeles |
| 10:00 AM | Mr. Ed Chau, California State Assembly-member |
| 10:10 AM | Ms. Juli Costanzo, Council Member of City of San Gabriel |
| 10:20 AM | Mr. Jonathan Bishop, Deputy Executive Officer of State Water Resources Control Board |
| 10:50 AM | Mr. Wayne Nasri, Executive Officer, South Coast Air Quality Management District |
| 11:00 AM | Keynote Speech - Ms. Grace Chan, Manager of Resource Planning and Development, Metropolitan Water District of Southern California <i>"Ensuring Water Supply Reliability for Southern California"</i> |
| 11:30 AM | Keynote Speech - Dr. Rong Fu, Professor of UCLA <i>"Climate Change and California Drought"</i> |
| 12:00 PM | Jun Lu, Ph.D., Deputy Chair of Forum Steering Committee |
| Luncheon Presentation (12:20 PM - 1:00 PM) | |
| 12:30 PM | Dr. Derek E. Chitwood, Director of Rural Development of Partners International <i>"Meeting the Sustainable Development Goals Drinking Water Quality Standards in Rural Villages of Southwest China"</i> |
| 1:00 PM | Scholarships Award Ceremony |

Platform Sessions

August 10th, 2018

Platform Sessions (1:30 PM - 5:00 PM)

| Session A1 | | Conference Room |
|-------------|---|------------------------------------|
| Moderators | Daiqi Ye, Hui Su | |
| Topic | Air Quality | |
| 1:30 - 2:00 | Impacts of Aerosols on Seasonal Precipitation and Snowpack in California Based on Connection-Permitting WRF-Chem Simulations - Gu Yu, UCLA | |
| 2:00 - 2:30 | Action on Climate Change with Regional Collaboration with Low Carbon Technologies and Green Finance - Yufu Cheng, R20 Regions of Climate Action | |
| 2:30 - 3:00 | OH Oxidation of Surface-Active Species at the Air-Water Interface - Yuanlong Huang, CalTech (Student Paper Competition 3rd Place Winner) | |
| 3:00 - 3:30 | Break | |
| 3:30 - 4:00 | Study on pollution control scheme of volatile organic compounds in China - Daiqi Ye, South China University of Technology | |
| 4:00 - 4:30 | Air pollution and its health effects in California: source apportionment and decarbonization - Bin Zhao, UCLA | |
| 4:30 - 5:40 | | US - China Site Remediation Summit |

US-China Site Remediation Summit

August 10th, 2018

Summit Invited List China (9 companies)

1. 北京建工环境修复股份有限公司
BCEG Environmental Remediation Co., Ltd 刘刚 技术部部长
2. 北京高能时代环境修复有限公司
Beijing GeoEnvironmental Remediation Co., Ltd. (BGE) 范吉强 技术部经理
3. 伊世特中国有限公司 ESD China Limited 樊宇阳 总经理
4. 航天凯天环保科技有限公司 China Aerospace Kaitian Environmental Remediation Co., Ltd 熊忠 总工程师
5. 哈尔滨北方环保工程有限公司 Harbin North Environmental Protection Engineering Co., Ltd 杨少厚 总工程师
6. 煜环环境科技有限公司 Yuhuan Environmental Science and Technology Co., Ltd 佟雪娇 副经理
7. 江苏大地益源环境修复有限公司 Jiangsu DDBS Environmental Remediation Co., Ltd 顾爱良 技术负责人
8. 浙江精功环境技术有限公司 Jinggong Environmental Technology Co., Ltd 周浩 董事长
9. 北京百之环境科技有限公司 Beijing Baizhi Environmental Science and Technology Co., Ltd 吴悦颖 总经理

USA (11 companies)

1. Apex Companies (Mr. Paul Parmentier, Principal Hydrogeologist)
2. Burns & McDonnell (Mr. Joel Farrier, Group Leader)
3. Montrose Environmental Group (Dr. Joon Min, Vice President and Mr. James Wang, Senior Manager)
4. CDM Smith (Dr. Dora Chiang, Vice President)
5. GEO Environmental Remediation Company (Dr. Xiaosong Jason Chen, Senior Manager)
6. Geosyntec Consultants (Dr. Ravi Arulanantham, Senior Principal)
7. Test America (Mr. Xiaoming Joe Wu, Vice President and Ms. Karen Maxwell, Sales Manager)
8. Regensis (Mr. Dan Nunez, Sales Manager)
9. Fulcrum Resources Environmental (Mrs. Hao Zhang, Project manager)
10. Ensate (Mr. Max Pan, Senior Project Director)
11. EN Rx Inc. (Dr. Stephen S. Koenigsberg, President)

Platform Sessions

August 11th, 2018

Platform Sessions (1:30 PM - 5:00 PM)

| Moderators | Topic | Session A3 | Session B3 | Session C3 |
|--|---|---|--|----------------------------|
| Jay Chen, Wei Li | Air Quality | Jun Lu, Yuyang Gong | Eric Li, Yiping Cao | Surface water & Wastewater |
| Ethyl Acetate Oxidation over MnOx-CeO2 Catalyst Derived from Metal-organic Framework - Mingji Fu, South China University of Technology | Understanding the Vapor Intrusion Pathway: Not as Simple as You May Think - Ravi Anantharam, Geosyntec Consultant | ClosureTurn®: An Innovative Landfill Final Cover System - Ming Zhu, Walenshed Geosynthetics | Sealing Up Microbial Source Tracking Through Automation - Yiping Cao, Source Molecular | |
| 2:00 - 2:30 | 工业园区挥发性有机物溯源方法跟踪检测 - 郭宇豪, 台湾绿源科技股份有限公司 | Colloidal Activated Carbon as a Treatment Solution for Back Diffusion - Dan Nunez, Regenesis | Reduction and Stabilization of Sewage Sludge by Earthworm Biofilters - Yadan Zheng, Tongji University (Student Paper Competition 1st Place Winner) | |
| 2:30 - 3:00 | 危险废物 催化 制备 微介多级孔炭及其吸附性能的测试 - Heonming Huang, South China University of Technology | Nitrate Removal via Formate Radical-Induced Homogeneous Photochemical Denitrification - Gongde Chen, UCR (Student Paper Competition 1st Place Winner) | Waste Water Treatment and Sludge Process - A Case Study - Iis Huang, Atkins Global | |
| 3:00 - 3:30 | Break | | | |
| 3:30 - 4:00 | Time-critical DNAPL treatment using passive technologies - Terry Feng, Jacobs | Why Waste Energy on Wastewater? - Eric Li, BDP Enviro Tech | | |
| 4:00 - 4:30 | Multiple technologies utilized for cleanup of a petroleum contaminated site - Flanpan Wu, Apex Companies | The intermediate product of tetracycline degradation in a schrot heterogenous Ferrous system - Jing Shi, China Pharmaceutical University | | |
| 4:30 - 5:00 | New Perspectives on Horizontal Wells for Assessment and Remediation, Stephen S. Koeningberg, EN RX, Inc. | | | |
| 5:00 - 5:30 | Using Digital Image Analysis to Compare of Soil Moisture Estimation Models for Different Soil Particle Sizes, Cheng-Ting Chuang, Using Sequential Pumping Test Method at Field Site to Investigate the Effect of Boundary Head Conditions for Hydraulic Property Estimation, Si-Xian Liu, National Yunlin University of Science and Technology (Student Paper Competition Honorable Mentions) | | | |

Platform Sessions

August 11th, 2018

Platform Sessions (9:00 AM - 12:00 PM)

| Moderators | Topic | Session A2 | Session B2 | Session C2 |
|--|---|--|--|---------------|
| Yun Hu, Jay Chen | Air Quality | Scarlett Zhai, Dora Chiang | Donna Chen, Jason Wen | Surface water |
| South Coast Air Basin Air Quality Planning - The Past and the Future, Kalam Chung, South Coast Air Quality Management District | 中国污染地块管理政策发展 - Ying Chen, China MEE | New Emerging Contaminants - PFAS? - Jason Wen, City of Lakewood | | |
| 9:00 - 9:30 | Systematic comparison of the influence of cool wall versus cool roof adoption on urban climate and air quality in the Los Angeles basin - Jiachen Zhang, USC (Student Paper Competition 3rd Place Winner) | Vapor intrusion: a unique and evolving scientific topic - Emma Luo, Chevron Energy Technology Company | Establishment of Holistic Water Quality Management Strategy in Malibu - Eric Wu, LAWQCB | |
| 9:30 - 10:00 | Break | | | |
| 10:00 - 10:30 | The challenge for PM2.5 control in Taiwan - Ciockai Liang, Taiwan Environmental Protection Administration | Complex Site Management - Dora Chiang, CDM Smith | Wilmington Drain Rehabilitation Project in the City of Los Angeles - Donna Chen, City of LA | |
| 10:30 - 11:00 | Synthesis of TiO2-MOFs nanocomposites with enhanced photocatalytic activity for VOCs oxidation - Yun Hu, South China University of Technology | Progress and Challenges in Remediation of Contaminated Sites in China - A Case Study from Ningbo, Zhejiang Province - Ailiang Gu, Jiangsu DBBS Environment Remediation Co. / Gilbane | Clean Water Act and its Related Public Health Concerns: A Case Study - Renjie Hu, California Department of Public Health | |
| 11:00 - 11:30 | | | | |
| 11:30 - 12:00 | 参考美國加州經驗於台灣推動石化工業區 VOCs 改善歷程 - 戴忠良, 台灣行政院環境保護署 | | | |

2018 Student Research Award

2018 Student Research Award

FIRST PLACE

- Gongde Chen, University of California at Riverside, Nitrate Removal via Formate Radical-Induced Homogeneous Photochemical Denitrification

SECOND PLACE

- Yadan Zheng, University of California at Berkeley, and Shanghai Tongji University, Reduction and Stabilization of Sewage Sludge by Earthworm Biofilters

THIRD PLACE

- Yuanlong Huang, California Institute of Technology, OH Oxidation of Surface-Active Species at the Air-Water Interface
- Jiachen Zhang, University of Southern California, Systematic Comparison Of The Influence Of Cool Wall Versus Cool Roof Adoption On Urban Climate And Air Quality In The Los Angeles Basin
- Ching-Hsing Wang, National Yunlin University of Science and Technology, Using the Unarmed Aerial Vehicle to Estimating In-situ Soil Water Content by Applying the Grey Level Resolution In Digital Imaging

HONORABLE MENTIONS

- Cheng-Ying Chuang, National Yunlin University of Science and Technology, Using Digital Image Analysis to Compare of Soil Moisture Estimation Models for Different Soil Particle Sizes
- Si-Xian Liu, National Yunlin University of Science and Technology, Using Sequential Pumping Test Method at Field Site to Investigate the Effect of Boundary Head Conditions for Hydraulic Property Estimation