



## Preliminary Program

# *Symposium on Global Emerging Environmental Challenges and Government Responses*

Presented By  
Southern California Chinese American Environmental Protection  
Association (SCCAEPA)



**April 25 -28, 2008**

Registration Form Included

**Pacific Palms Conference Resort**  
1 Industry Hill Parkway, City of Industry  
CA 91744

Government Organization, Water Resources Protection, Remediation, Air Quality Protection, Solid Waste Management, Analysis, NPDES Permit, Lake and Reservoir Eutrophication, Environmental and Human Risk Assessment, Environmental Technologies

Visit us at website: [www.sccaepa.org](http://www.sccaepa.org)

Co-organizers: Cal EPA - Los Angeles Regional Water Quality Control Board, Santa Ana Regional Water Quality Control Board, San Diego Regional Water Quality Control Board, Department of Toxic Substances Control, Air Resources Board, California State University at San Bernardino

## Symposium at a Glance

**Friday, April 25, 2008**

**Morning 9:00 AM - noon General Session and Opening Ceremony**

### Invited Speakers:

Ms. Kathleen Johnson, Director of Public Affairs, US Environmental Protection Agency, Region IX  
 Ms. Tam Doduc, Chair of California State Water Resources Control Board  
 Ms. Maureen Gorsen, Director of Department of Toxic Substances Control  
 Mr. David Nahai, General Manager of City of Los Angeles Department of Water and Power

### Luncheon Presentation: Air Quality (pending)

**Afternoon 1:30 - 5:00 PM**

#### Platform Presentations (Sessions are concurrent)

**Session 1: Regulatory Compliance of Environmental Protection in the US**  
**Session 2: Water Resource Protection, Soil and Groundwater Cleanup (1)**  
**Session 3: Lake and Reservoir Management for Eutrophication (Algae Control)**  
**Session 4: Solid Waste Management**

**Saturday, April 26, 2008**

#### Platform Presentations

**Morning 8:30am - Noon (Sessions are concurrent)**

**Session 2: Water Resource Protection, Soil and Groundwater Cleanup (2)**  
**Session 5: Toxic Substances Control**  
**Session 6: NPDES Permitting (1)**  
**Session 7: Air Quality (1)**

**Afternoon 1:30pm - 5:00pm (Sessions are concurrent)**

**Session 2: Water Resource Protection, Soil and Groundwater Cleanup (3)**  
**Session 6: NPDES Permitting (2)**  
**Session 7: Air Quality (2)**  
**Session 8: Environmental Technologies & Services**

**Sunday, April 27, 2008**

**Morning 9:00 AM - noon**

### Special Forum: Environmental Projects and Challenges in China

**Monday, April 28, 2008**

**Site visits: 9:00 am - 4:30 pm (Trips are concurrent)**

Trip one - City of Los Angeles Hyperion Waste Water Treatment Plant (morning), West Basin Municipal Water District - Advanced Recycled Water Facility (afternoon).

Trip two - Puente Hill Landfill in Whittier (County of Los Angeles) and Groundwater Remediation Treatment Plant (San Gabriel Valley Water Company)

Trip three - Lake Elsinore, Lake Perris, Diamond Valley Reservoir



Friday, 1:30 pm - 5:00 pm

Sessions Run Concurrently

Session 1:

**Regulatory Compliance of Environmental Protection in the US**

**Moderator:** *Dr. Yue Rong*

*Program Manager, Los Angeles Regional Water Quality Control Board*

**Introduction to USEPA**

*Ms. Lynn Kuo, Chief Staff, USEPA Region 9 (unconfirmed)*

**Introduction to Six Branches of State of California EPA and Local (City and County) Environmental Affairs Offices**

*Dr. Weixing Tong, Senior Engineering Geologist, Los Angeles Regional Water Quality Control Board*

**Environmental Groups and Their Roles**

*Mr. James Lau, Assistant Executive Director, California League of Conservation Voters Education Fund*

**Critique On The California Environmental Quality Act and Future Directions Of the Environmental Impact Report/Assessment**

*Mr. Jimmy Liao, Engineer, City of Los Angeles*

Session 2:

**Water Resource Protection, Soil and Groundwater Cleanup (1)**

**Moderator:** *Dr. Rebecca Chou*

*Branch Chief, Department of Toxic Substances Control*

**Strategic Framework for Controlling Water Environment Pollution in the United States**

*Mr. Gensen Kai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

**Evaluation of Disinfection Alternatives for Wastewater Effluent**

*Dr. Jeff Kuo, Professor, California State University at Fullerton*

**Wastewater Management and Recycled Water Applications in Los Angeles Region**

*Dr. Don Tsai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

**Surface Water Protection through Total Maximum Daily Loads (TMDL) Program**

*Dr. Eric Wu, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

Session 3:

**Lake and Reservoir Management for Eutrophication (Algae Control)**

**Moderator:** *Dr. J.J. Lee*

*Professor, University of Southern California*

**Lake and Reservoir Eutrophication**

*Dr. Cindy Li, Engineering Geologist, Riverside Regional Water Quality Control Board*

**Water Quality Modeling for Lakes and Reservoirs**

*Dr. Michael Anderson, Associate Professor, University of California at Riverside*

**Blue-green Algae (BGA) Distribution, Toxins and Controlling Factors in San Francisco Estuary**

*Dr. Paggy W. Lehman, Staff Environmental Scientist, California State Department of Water Resources*

**Impact of BGA on Fish Population**

*Dr. Swee Teh and Dr. Dong-Fang Deng, University of California at Davis*

**Algal Bloom Control with Copper Compounds**

*Mr. Gensen Kai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

*Dr. Xiaoping Li, Deputy Director, Shanghai Academy of Environmental Sciences*

Session 4:

**Solid Waste Management**

**Moderator:** *Dr. Yi Lu*

*Senior Engineering Geologist, Los Angeles Regional Water Quality Control Board*

**Federal and State Regulations on Solid Waste Management**

*Mr. Max Pan, Engineer, Accord Engineering, Inc.*

**Construction and Operations of Modern Landfills—A Case Study**

*Dr. Wen Yang, Engineering Geologist, Los Angeles Regional Water Quality Control Board*

**Post Disaster Investigation and Remediation of Hazardous Wastes**

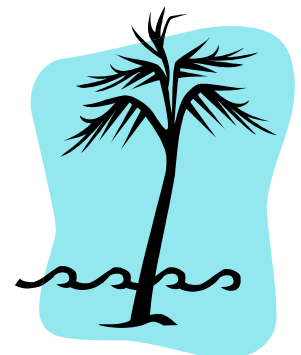
*Dr. Paul Lo, Professor, Tulane University*

**Green Solutions to Solid Waste Management and Desertification**

*Dr. James Lu, President, AM-WEST Environmental Group, Inc.*

**LUNCHEON PRESENTATION**  
**Air Quality**

**Friday, April 25, 2008**  
**(pending)**



**Session 2:  
Water Resource Protection, Soil and  
Groundwater Cleanup (2)**

**Moderator:** *Mr. Jinghui Niu  
Principal, Environ Strategy Consultant, Inc*

- Ocean Water Protection and Bay Restoration**  
*Dr. Guangyu Wang, Senior Environmental Scientist, Los Angeles Regional Water Quality Control Board*
- Revision/Update Total Dissolved Solids/Nitrogen Water Quality Objectives for the Ground Water Basins in the Santa Ana Region, California, USA**  
*Dr. Cindy Li, Engineering Geologist, Riverside Regional Water Quality Control Board*
- Drinking Water Regulations in State of California**  
*Dr. Jason Wen, Utility Superintendent, City of Downey*
- Use NPDES Permit to Implement TDS & TIN Water Quality Objectives in the Santa Ana River**  
*Ms. Jane Qiu, Water Resource Control Engineer, Santa Ana Regional Water Quality Control Board*

**Session 6:  
NPDES Permitting (1)**

**Moderator:** *Dr. Charles Cheng  
Engineering Geologist, San Diego Regional Water Quality Control Board*

- Overview of Clean Water Act and Scope and Regulatory Framework of the NPDES Program**  
*Mr. Gensen Kai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*
- NPDES Permit Types, Coverage, and Emerging Program Areas**  
*Mr. Gensen Kai*
- NPDES Permit Application Process**  
*Mr. Gensen Kai*
- Monitoring and Reporting Conditions**  
*Dr. Don Tsai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*
- Standard Conditions and Special Conditions for NPDES Permits**  
*Dr. Don Tsai*
- Inspection and Enforcement**  
*Dr. Don Tsai*
- National Pretreatment Program**  
*Dr. Charles Cheng, Engineering Geologist, San Diego Regional Water Quality Control Board*

**Session 5:  
Toxic Substances Control**

**Moderator:** *Mr. Ken Chiang  
Senior Hazardous Substances Scientist, Department of Toxic Substances Control (DTSC)*

- Brownfields and School Programs**  
*Dr. Rebecca Chou, Program Manager, DTSC*
- Human Health Risk Assessment and management**  
*Dr. C. Y. Jeng, Staff Toxicologist, DTSC*
- RCRA Permits and Corrective Actions**  
*Mr. J. T. Liu, Senior Hazardous Substances Engineer, DTSC (undetermined)*
- Regulate and manage E-Waste, Universal Waste, and Toxic Materials in Products**  
*Ms. Cindy Chain-Britton, Hazardous Substances Scientist, DTSC*
- Pollution Prevention/Green Technology**  
*Dr. Ning-Wu Chang, Senior Hazardous Substances Engineer, DTSC*

**Session 7:  
Air Quality (1)**

**Moderator:** *Dr. Eddy Huang  
Air Quality Director, Tetra Tech, Inc.*

- Air Quality Trends, Challenges, and Technology Advancement Programs**  
*Dr. Elaine Chang, Deputy Executive Officer, South Coast Air Quality Management District*
- Regional Air Modeling and Health Risk**  
*Dr. Xing-qiu Zhang, Air Quality Specialist, Air Quality Management District of South Coast*
- Emissions Reduction from Off-Road Mobile Sources**  
*Dr. Hung-Li Chang, Air Quality Engineer, California Air Resource Board*

Saturday, 1:30 pm - 5:00 pm

Sessions Run Concurrently

**Session 2:**

**Water Resource Protection, Soil and Groundwater Cleanup (3)**

**Moderator:** *Dr. Jason Wen*  
*Utility Superintendent, City of Downey*

**Evaluate Groundwater Management Strategies of Coastal Los Angeles: The Role of Numerical Modeling in Decision Making Process**

*Dr. Zhen Li, Hydrologist, U.S. Geological Survey, California Water Science Center*

**Contaminated Site Cleanup and Property Transfer**

*Dr. Stephen Niou, Hazardous Substance Engineer, Department of Toxic Substances Control*

**Soil and Groundwater Contamination Assessment**

*Mr. Jinghui Niu, Principal, Environ Strategy Consultant, Inc*

**Innovative In Situ Soil and Groundwater Remediation on Recalcitrant Compounds**

*Dr. Jim Kang, Senior Vice President of URS Corporation*

**Session 6:**

**NPDES Permitting (2)**

**Moderator:** *Mr. Gensen Kai*  
*Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

**Technology-Based Effluent Limits (TBEL)**

*Dr. Charles Cheng, Engineering Geologist, San Diego Regional Water Quality Control Board*

**Water Quality-Based Effluent Limits (WQBEL)**

*Dr. Charles Cheng*

**Case Study – Los Angeles County Sanitation District Joint Water Pollution Control Plant**

*Dr. Jau Ren Chen, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board*

**Session 7:**

**Air Quality (2)**

**Moderator:** *Dr. Hung-Li Chang*  
*Air Quality Engineer, California Air Resource Board*

**Greenhouse Gas and Global Warming**

*Dr. Eddy Huang, Air Quality Director, Tetra Tech, Inc.*

**Emissions/odor Issues with Municipal Solid Waste Conversion Technologies and Material Recovery Facilities**

*Mr. Jay Chen, Section Chief, Air Quality Management District of South Coast*

**Geographic Information System (GIS) Applications for the Management of Air Quality Programs**

*Mr. Robert Wu, Air Quality Specialist, Air Quality Management District of South Coast*

**Potential Opportunities in Technology Demonstration**

*(undetermined)*

**Session 8:**

**Environmental Technologies & Services**

**Moderator:** *Dr. Endi Zhai*  
*Principal Engineer, Kleinfelder*

**Environmental Forensics – Light Non-Aqueous Phase Liquid (LNAPL) Finger Printing and Environmental Applications**

*Dr. Jun Lu, Principal Technical Specialist, ENSR/AECOM*

**Laboratory Chemical Analysis of Environmental Samples - Vapor, Water and Solid**

*Ms. Virginia Huang, Lab Director, Cal Sciences*  
*(unconfirmed)*

**Alternative Contracting or Capital Improvement Program (CIP) Project Delivery**

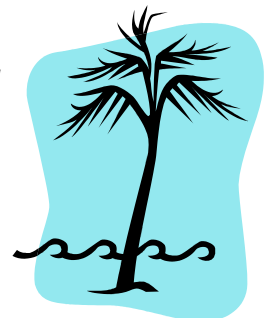
*Mr. Eric Niu, Associate, Malcolm Pirnie, Inc.*

**Noise Pollution, Noise Control Technology and Standards**

*Prof. Danqun Fang, Dean of Western Environmental Academy, USA*

**Groundwater Contamination Data Management (California Geotracker System and EnviroStor system)**

*Dr. Weixing Tong, Senior Engineering Geologist, Los Angeles Regional Water Quality Control Board,*  
*Mr. Joe Hwong, Senior Engineering Geologist, Department of Toxic Substances Control*





**Sunday, April 27, 2008**

**Special Forum—Environmental Projects and Challenges in China**

**Sunday, 8:30 am - 11:30 am**

**Moderator:** *Dr. Weixing Tong*

*Senior Engineering Geologist, Los Angeles Regional Water Quality Control Board*

**Challenges in Working for Multinational Companies in China**

*Dr. Jim Kang, Senior Vice President, URS Corporation*

**Lake Eutrophication Issues in China**

*Dr. Xiaoping Li, Deputy Director, Shanghai Academy of Environmental Sciences (unconfirmed)*

**Impact of Water Projects on River Flow Regimes and Water Quality: A Case Study in Huai River Basin of China**

*Dr. Jun Xia, Director General, Center for Water Resources Research, Chinese Academy of Sciences*

Special Forums

**Monday, April 28, 2008**

**Site Visits**

**Monday, 8:30 am - 4:30 pm**

**Trips Run Concurrently**

**Trip one - City of Los Angeles Hyperion Waste Water Treatment Plant (morning), West Basin Municipal Water District - Advanced Recycled Water Facility (afternoon) - City of Long Beach Seawater Desalination Facility (afternoon)**

Hyperion Plant— Dry weather average design treatment capacity of 450 million gallons per day (mgd ) and a wet weather peak hydraulic capacity of approx. 850 mgd. One of the largest plants in the US

West Basin Recycled Water Facility (WBWRF) —24 mgd of secondary effluent sent to West Basin for advanced treatment. As one of the largest recycled water plants in the nation, WBWRF is the only treatment facility in the US to provide five qualities of “designer” or custom-made recycled water for various municipal, commercial and industrial applications.

City of Long Beach Desalination Facility—This is a research and development project with capacity of seawater treatment at 300,000 gallon-per-day. The facility is partnership between City of Long Beach, the US Department of Interior Bureau of Reclamation, and City of Los Angeles Department of Water and Power. It is the largest seawater desalination project of its kind in the US.



**Trip two - County of Los Angeles Puente Hill Landfill and San Gabriel Valley Water Company (SGVWC) Groundwater Remediation Treatment Plant**

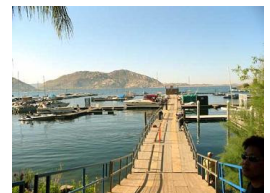
Puente Hill Landfill—This landfill is the largest one in the US. The accumulative total of all solid waste disposed, since the County operated in 1970, is approximately 109 million tons. The landfill was operated by San Gabriel Valley Dump between 1958 and 1970.

SGVWC Groundwater Treatment Plant—This facility uses various technologies, i.e., GAC, air-stripping, resin, ultraviolet, reverse osmosis, etc., to treat contaminated groundwater and provide drinking water to the customers.



**Trip three - Lake Elsinore, Lake Perris, MWD Diamond Valley Reservoir**

Tour will present real-world lake and reservoir management practices in Southern California. The two reservoirs and one lake are at different stages of eutrophication, therefore different management strategies and technologies are applied to ensure protection and restoration of the beneficial uses. Technologies such as aeration, fishery management, and lake stabilization will be presented.



Site Visits

Please Print Clearly. The form can be used for single person or a group with attached name list

Name: \_\_\_\_\_ SCCAIEPA member (please check)

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

**REGISTRATION** (Fee include three lunches, 4/25, 26, and 28, and 4/28 dinner, symposium materials, site visit bus) (payment can be made through check, money order, or bank wire, payable to "SCCAIEPA", no credit card)

Whole symposium (4/25 -28) .....\$300/person X (.....) \_\_\_\_\_

Platform sessions only (4/25-27) .....\$250/person X (.....) \_\_\_\_\_

Site visit only (4/28).....\$100/person X (.....) \_\_\_\_\_

Certificate (issued by Cal State University, San Bernardino, optional) .....\$50/person X (.....) \_\_\_\_\_

(Fee must be paid in full before April 10, 2008. Payment after April 10, 2008 must include \$50 late fee. Cancellation is subject to 20% of handling charge)

**SURVEY** (please indicate number of people and interested sessions and site visit trips for conference room and bus arrangement)

No. of people

- \_\_\_\_\_ Session 1: General Session
- \_\_\_\_\_ Session 2: Water Resource Protection, Soil and Groundwater Cleanup (1)
- \_\_\_\_\_ Session 3: Lake and Reservoir Management for Eutrophication (Algae)
- \_\_\_\_\_ Session 4: Solid Waste Management and Recycling
- \_\_\_\_\_ Session 2: Water Resource Protection, Soil and Groundwater Cleanup (2)
- \_\_\_\_\_ Session 5: Toxic Substances Control
- \_\_\_\_\_ Session 6: NPDES Permit (1)
- \_\_\_\_\_ Session 7: Air Quality (1)
- \_\_\_\_\_ Session 2: Water Resource Protection, Soil and Groundwater Cleanup (3)
- \_\_\_\_\_ Session 6: NPDES Permitting (2)
- \_\_\_\_\_ Session 7: Air Quality (2)
- \_\_\_\_\_ Session 8: Environmental Technologies & Services
- \_\_\_\_\_ Special Forum: Environmental Projects and Job Opportunities in China
- \_\_\_\_\_ Special Forum: Environmental Projects and Job Opportunities in Taiwan
- \_\_\_\_\_ Site visit trip one - City of Los Angeles Hyperion Waste Water Treatment Plant (morning), West Basin Municipal Water District - Advanced Recycled Water Facility (afternoon).
- \_\_\_\_\_ Site visit trip two - Puente Hill Landfill in Whittier (County of Los Angeles) and Groundwater Remediation Treatment Plant (San Gabriel Valley Water Company)

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Visa _____

Please mail or fax the registration form to:

Mr. David Lin

25 E. Wheeler Ave., Suite F, Arcadia, CA 91006, USA

Phone: (626) 446-0916

Fax: (626) 446-0925

E-mail : davidlinxu@gmail.com

## Hotel Information

### Pacific Palms Conference Resort

1 Industry Hill Parkway, City of Industry, CA 91744,  
phone: 800-524-4557,  
www.pacificpalmsresort.com  
Single: \$150 +tax; Double: \$150 +tax

### Courtyard Marriott

1905 South Azusa Ave., Hacienda Heights, CA 91745,  
phone: 626-965-1700, fax: 1-626-965-1367  
2.6 miles to Pacific Palms Conference Resort, walking  
distance to Chinese shopping plazas  
www.marriott.com  
Single: \$159 +tax; Double: \$159 +tax

### Best Western Executive Inn

18880 East Gale Ave., Rowland Heights, CA 91748,  
phone: 800-874-2858 or 626-810-1818,  
fax: 1-626-810-3222  
3.7 miles to Pacific Palms Conference Resort, walking  
distance to Chinese shopping plazas  
www.book.bestwestern.com  
Single: \$119 +tax; Double: \$99 +tax

## About SCCAEPA

*The Southern California Chinese-American Environmental Protection Association (SCCAEPA) is a non-profit professional organization. Its mission is to promote environmental awareness and communication among members, to participate in and serve the environmental scientific community and the Chinese American community. It has over 200 members of scientists, engineers, academics and/or students, who work in public, private, and academia sectors. More than 80% of members have advanced degrees (Masters and Doctorates).*

### Directions from airports to the conference hotel:

From Los Angeles International Airport (LAX) -> Freeway 105 east -> Freeway 605 north -> Freeway 60 east -> exit at Azusa Ave. and turn left (north) -> turn left at Industry Hill Parkway (37 miles)

From Ontario International Airport (ONT) -> Airport Dr west -> Vineyard Ave. north -> Freeway 10 west -> Freeway 57 south -> Freeway 60 west -> exit at Azusa Ave. and turn right (north) -> turn left at Industry Hill Parkway (23 miles)

## Symposium Sponsors



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## Symposium Steering Committee

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Weixing Tong, Ph.D., PG. CEG. CHG., Senior Engineering Geologist, Los Angeles Regional Water Quality Control Board

### Members

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Rebecca Chou, Ph.D., PE, Branch Chief, Department of Toxic Substances Control  
Zhenhao Duan, Ph.D., Research Scientist, University of California at San Diego  
Eddy Huang, Ph.D., PE, Director, Tetra Tech, Inc.  
Gensen Kai, Water Resource Control Engineer, Los Angeles Regional Water Quality Control Board  
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Wen Yang, Ph.D., PG. CEG. CHG., Engineering Geologist, Los Angeles Regional Water Quality Control Board  
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