

A Technical Workshop on Intergraded Water Resource Management In the United States

Presented by

**Oversea Chinese Environmental Engineers and Scientists Association
(OCEESA) - A Chapter of Chinese Institute of Engineers, USA (CIE-USA)**

Time: August 12 - 15, 2013

Location: San Gabriel Hilton, 225 West Valley Boulevard San Gabriel, CA

August 12, 2013 (Monday)

Introduction and Biological Processes

09:00 – 09:40

- ◆ Wastewater Treatment Challenges and Developments in the United States (Jeff Kuo)

09:40 – 10:40

- ◆ Hyperion's HPO Activated Sludge Process Improvements (Steven Fan)

10:40 – 11:00 (Break)

11:00 – 12:00

- ◆ Anaerobic Digestion of Wastewater Sludge at Hyperion (Steven Fan)

12:00 – 13:30 (Lunch Break)

Water Reclamation and Sludge Treatment

13:00 – 15:10

- ◆ Water Recycling and Reuse – Southern California's Experience (Chi-Chung Tang)

15:10 – 15:30 (Break)

15:30 – 16:30

- ◆ Resource Recovery from Biosolids (Chi-Chung Tang)

August 13, 2013 (Tuesday)

Wastewater Treatment Plant Management and Practices

09:00 – 10:00

- ◆ Disinfection and Nitrogen Removal for Water Reclamation (Jeff Kuo)

10:00 – 10:40

- ◆ Wastewater Pre-Treatment Program in the United States (Anmin Liu)

10:40 – 11:00 (Break)

11:00 – 12:00

- ◆ Wastewater Treatment Plant Management and Practices in the U.S. (Anmin Liu)

12:00 – 13:30 (Lunch Break)

Water Pollution Control and Water Resource Management

13:30 – 15:10

- ◆ Legal Framework for Water Pollution Control in the USA (Charles Cheng)
- ◆ NPDES Permit for Wastewater Treatment and Industrial Pretreatment (Charles Cheng)

15:10 – 15:30 (Break)

15:30 – 16:30

- ◆ TMDL for Non-Point Source and Watershed Management (Charles Cheng)
- ◆ Stormwater Runoff Best Management Practices (BMPs) (Charles Cheng)

August 14, 2013 (Wednesday)

Air Quality Management in Southern California

09:00 – 10:10

- ◆ Smog Controls and Air Quality Management in Metro Los Angeles Area (Jay Chen)

10:10 – 10:30 (Break)

10:30 – 12:00

- ◆ Odor and VOC Control in Wastewater and Sludge Treatment (Andy Lee)
- ◆ Biogas Generation from Anaerobic Digestion and Treatment (Andy Lee)

12:00 – 13:30 (Lunch Break)

Air Quality Issues Related to Resource Recoveries and Bioenergy Projects

13:30 – 15:10

- ◆ Landfill Gas Management and Gas-to-Energy Project Case Histories (John Tzeng)

15:10 – 15:30 (Break)

15:30 – 16:30

- ◆ Air Quality Permitting for Bioenergy and Resource Recovery Projects (Jay Chen)

August 15, 2013 (Thursday)

09:00 – 12:00

Field Trip: Ground Water Replenishment System (GWRS) www.gwrssystem.com – the world's largest advanced wastewater purification system for potable reuse.

12:00 – 13:30 (Lunch Break)

13:30 – 15:10

Forum: Interactive Discussion on Workshop Topics by All Participants

15:10 – 15:30 (Break)

15:30 – 16:30

Forum: Interactive Discussion on Workshop Topics by All Participants (Continued)

Speakers

- Jay Chen, P.E., former Senior Engineering Manager, South Coast Air Quality Management District
- Charles Cheng, Ph.D., P.G., Project Manager, San Diego Water Board, Cal/EPA
- Steven Fan, P.E., Plant Manager, Hyperion Wastewater Treatment Plant, City of Los Angeles
- Jeff Kuo, Ph.D., P.E., Professor, California State University, Fullerton
- Andy Lee, Ph.D., P.E., Research Engineer, Los Angeles County Sanitation Districts
- Anmin Liu, P.E., President, AML Engineering Consultants
- Chi-Chung Tang, Ph.D., P.E., Manager, Wastewater Research Section, Los Angeles County Sanitation Districts
- John Tzeng, P.E., Senior Civil Engineer, Orange County Waste and Recycling