

OCACS Environmental Program**The Practical Application of Ozone-based AOP in Water Reuse Applications****October 27, 2011, 7:30pm****Michael Jaubert**Manager, Western Region Business Development
APTwater, Inc**Presentation Abstract:**

Ozone has been used in water purification and the disinfection of wastewater for over 100 years. The development of Ozone-based AOP ($O_3 + H_2O_2$) has led to major advancements over the past 15 years in the areas of groundwater remediation, drinking water purification, industrial process water, and waste water reuse for irrigation, other non-potable use, and most recently, the recharging of potable groundwater aquifers in California and other areas of the arid southwest. In a WRF study in 2009 (WRF 02-009), ozone-based AOP was determined to be the lowest cost option to reduce pathogens and trace organics such as endocrine disruptors, emerging contaminants, and Personal Care/Pharmaceutical Products. This presentation will discuss how an ozone-based AOP process combined with Biologically-Activated Carbon can be a very cost-effective alternative to the MF+RO+UV treatment train often employed in waste water reclamation applications. An only ozone-based technology accepted for unrestricted water reuse by the California Department Public of Health, has been extensively piloted and demonstrated at a number of wastewater plants throughout the world. The results of these pilots and demonstration projects will be described in detail to show how ozone-based advanced oxidation can address the uncertainty of regulations while improving the quality of reclaimed water and addressing issues with public perception.

Speaker Biography:

Michael Jaubert has been with APTwater, Inc. since May 2011. Prior to joining APTwater, Mr. Jaubert has held senior level positions with Layne Christensen Company, Waterlink, Inc., and US Filter Corporation. He holds a B.S. degree in Microbiology and Chemistry from the University of Louisiana-Lafayette, and an MBA with distinction from Devry University. Over his career, Mr. Jaubert has worked in the Environmental and Water Treatment Industries in the areas of membrane filtration, ion exchange, carbon adsorption, coagulation-filtration, and air stripping. His practical experience spans Air Pollution Control using carbon adsorption, Hazardous Waste Consulting, Groundwater Remediation using carbon adsorption, air stripping, coagulation-filtration, and ion exchange, and Water and Waste Water reuse using UF and RO membrane-based processes.

Location:Kennedy/Jenks Consultants
Conference Hall
2355 Main St., Suite 140
Irvine, CA, 92614**Reservations:**Limited to first 25 with reservations. E-mail reservations to Ganesh Rajagopalan at RGanesh@KennedyJenks.com.