

**Donald Yee**  
San Francisco Estuary Institute  
7770 Pardee Lane, 2<sup>nd</sup> Floor  
Oakland, CA 94606  
email: donald@sfei.org

### Education

- Ph. D. Environmental Engineering                      Massachusetts Institute of Technology                      Feb 1997  
Interdisciplinary program including courses in Groundwater Hydrology, Environmental Organic Chemistry, Aquatic Chemistry, Limnology and Wetland Ecology, Environmental Law, Toxicology, Water Quality Control, Fate and Transport. GPA 4.7/5.0.  
Ph.D. dissertation: Cobalt Substitution for Zinc in Marine Phytoplankton.
- B.S. Chemical Engineering                      Massachusetts Institute of Technology                      June 1987  
Courses included Thermodynamics, Fluid Mechanics, Separation Processes, Chemical Kinetics & Reactor Design, Heat and Mass Transport, Biochemistry. GPA 4.4/5.0.

### Professional Experience

- Environmental Scientist                      San Francisco Estuary Institute, Richmond, CA                      Aug 1999 - present  
As Quality Assurance Officer, review data for conformance to SFEI format and content requirements, take corrective actions with subcontractors as necessary. Process and interpret data collected by SFEI and other researchers to determine environmental status and trends, and investigate sources and pathways of contaminants in San Francisco Estuary. Present this data in various forums and formats, in order to better guide management and environmental protection efforts in the estuary.
- Postdoctoral Research Fellow                      University of Hawaii, Honolulu, HI                      May 1997 - Apr 1999  
Examined influence of nutrients and environmental conditions on physiology and stable carbon isotopes of marine phytoplankton, knowledge required to extrapolate historical environmental conditions from stable isotope fractionation of organic carbon in sediments.
- Teaching Assistant                      M.I.T. Cambridge, MA                      Sep 1990 - Feb 1991  
Taught lectures as substitute for professor in Aquatic Chemistry course, wrote and graded problem sets, led exam review sessions, assisted students in one-on-one or group sessions.
- Research Assistant                      M.I.T./Princeton University                      Sep 1989 - Feb 1997  
Studied trace metal metabolism of marine phytoplankton using a variety of analytical chemistry and molecular biology techniques, including HPLC, AA, electrophoresis, and radiotracers.
- Chemical Engineer                      I.C.F. Incorporated, Vienna, VA                      Aug 1987 - Aug 1989  
Programmed computer model of failure and leakage of underground storage tanks, analyzed market share, uses, and substitutes for consumer and industrial chemicals, to weigh costs and benefits of proposed environmental regulations.
- Undergraduate Researcher                      M.I.T. Cambridge, MA                      Jun 1985 - Dec 1986  
Investigated preferential adsorption methods for purification of alpha-interferon from mammalian cell cultures.

### Publications

- P. Tsai, R. Hoenicke, D. Yee, H.A. Bamford, J.E. Baker. 2002. Atmospheric Concentrations and Fluxes of Organic Compounds in the Northern San Francisco Estuary. *Environ. Sci. Technol.* 36, 4741-4747
- Yee, D. and F.M.M. Morel. 1996. In vivo substitution of zinc by cobalt in carbonic anhydrase of a marine diatom *Limnology and Oceanography* 41(3). 573-577
- Morel, F.M.M., J.A. Reinfelder, J.G. Lee, D. Yee, and S.B. Roberts. 1995. Zinc alleviation of carbon limitation in phytoplankton. *Nature*.

### **Technical Reports**

D. Yee, J. Collins, L. Grenier, J. Takekawa, S. Schwarzbach, D. Tsao-Melcer, I. Woo, M. Marvin-DiPasquale, J.L. Agee, L.H. Kieu, L. Windham, J.R. Flanders, N. Ladizinsky, D. Krabbenhoft, S. Olund, T. Sabin, J. Evens. Mercury and Methylmercury Processes in North San Francisco Bay Tidal Wetland Ecosystems- CalFed Annual Project Report 2005.

D. Yee, A. Franz, 2005. Castro Valley Atmospheric Deposition Study (for the Brake Pad Partnership) SFEI. Oakland, CA 94621

D. Yee, 2004. San Francisco Bay Ambient Water Monitoring: CTR Interim Report and Final Update. SFEI. Oakland, CA 94621

D. Yee, J.E. Leatherbarrow, J.A. Davis. 2001. Fairfield-Suisun/South S.F. Bay Trace Organic Contaminants in Effluent Study. SFEI, Richmond, CA.

D. Yee, J.E. Leatherbarrow, J.A. Davis. 2002. Polychlorinated Biphenyls in Municipal Wastewater Effluent Study. SFEI, Richmond, CA.

D. Yee, J.E. Leatherbarrow, J.A. Davis. 2002. Polychlorinated Biphenyls in Northern San Francisco Estuary Refinery Effluents. SFEI, Oakland, CA.

Davis, J.A., J.N. Collins, D. Yee, S. Schwarzbach, and S.N. Luoma. 2000. Mercury and Tidal Wetland Restoration. Chapter 6 in Brown, L. (ed.). DRAFT CALFED Whitepaper on: Ecological Processes in Tidal Wetlands of the Sacramento-San Joaquin Estuary and Their Implications for Proposed Restoration Efforts of the Ecosystem Restoration Program.