

## Faculty - Philip M. Gschwend

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### Education

- 1973 B.S., California Institute of Technology
- 1979 Ph.D., Woods Hole Oceanographic Institution

### Research Interests

- Environmental organic chemistry; phase exchanges and transformation processes; modeling fates of organic pollutants; roles of colloids and black carbons; passive sampling for site evaluation.
- see textbook: *Environmental Organic Chemistry* by RP Schwarzenbach, PM Gschwend, & DM Imboden, 2nd edition, Wiley-Interscience, 2003.

### Selected Publications

1. Flores-Cervantes, D.X., D.L. Plata, J.K. MacFarlane, C.M. Reddy, and P.M. Gschwend. [Black carbon in marine particulate organic carbon: Inputs and cycling of highly recalcitrant organic carbon in the Gulf of Maine](#). *Marine Chemistry*, 113, 172-181, Jan. 2009.
2. Flores-Cervantes D.X., C.M. Reddy, and P.M. Gschwend. [Inferring black carbon concentrations in particulate organic matter by observing pyrene fluorescence losses](#). *Environ. Sci. Technol.*, 43, 4864-4870, 2009.
3. Plata D.L., A.J. Hart, C.M. Reddy, and P.M. Gschwend. [Early evaluation of potential environmental impacts of carbon nanotube synthesis by chemical vapor deposition](#). *Environ. Sci. Technol.*, 43, 8367-8373, 2009.
4. Fernandez L.A., C.F. Harvey, and P.M. Gschwend. [Using performance reference compounds in polyethylene passive samplers to deduce sediment pore water concentrations for numerous target chemicals](#). *Environ. Sci. Technol.*, 43, 8888-8894, 2009.

5. Ortega-Calvo, J.J., and P.M. Gschwend. **Influence of low oxygen tensions and sorption to sediment black carbon on biodegradation of pyrene.** *Appl. Environ. Microbiol.*, 76, 4430-4437, 2010.

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