

## Lauren Wray Juranek

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### (a) Professional Preparation:

University of California, Davis	Environmental Biology and Management	B.S. 1999
University of Washington, Seattle	Chemical Oceanography	M.S. 2003
University of Washington, Seattle	Chemical Oceanography	Ph.D. 2007

### (b) Appointments:

2011-present Assistant Professor, Oregon State University  
2009-2011 Research Scientist, Joint Institute for the Study of the Atmosphere and Ocean/UW  
2007-2009 National Research Council Postdoctoral Research Fellow, NOAA/PMEL  
2004-2007 NASA Earth System Science Graduate Fellow, University of Washington  
2001-2004 National Defense Science and Engineering Graduate Fellow, University of Washington

### (c) Publications

#### Five Related Publications:

Juranek, L.W., R.A. Feely, D. Gilbert, H. Freeland, L. Miller (2011), Real-time estimation of pH and aragonite saturation state from Argo profiling floats: Prospects for an autonomous carbon observing strategy, *Geophys. Res. Lett.*, 38, L17603, <http://dx.doi.org/10.1029/2011GL048580>

Juranek, L.W., R.A. Feely, W.T. Peterson, S.L. Alin, B. Hales, K. Lee, C.L. Sabine, J. Peterson (2009), A novel method for determination of aragonite saturation state on the continental shelf of central Oregon using multi-parameter relationships with hydrographic data, *Geophys. Res. Lett.*, 36, 24, <http://dx.doi.org/10.1029/2009GL040778>.

Juranek, L.W., and P.D. Quay (2010) Basin-wide primary production rates in the subtropical and tropical Pacific Ocean determined from dissolved oxygen isotope ratio measurements, *Global Biogeochem. Cycles*, 24, GB2006, <http://dx.doi.org/10.1029/2009GB003492>.

Juranek L. W., P. D. Quay, R.A. Feely, D. Lockwood, D.M. Karl, and M.J. Church, Biological regulation of N. Pacific Air-sea CO<sub>2</sub> flux: evidence from dissolved oxygen isotopes and O<sub>2</sub> /Ar, submitted to *J. Geophys. Res.*, July 2011 (rev submitted 1/2012).

Alin S.R., R.A. Feely, A.G. Dickson, , J.M. Hernandez-Ayon, L.W. Juranek, M. Ohman, R. Goericke, Robust empirical relationships for estimating pH and carbonate saturation states in the southern California Current System, submitted to *J. Geophys. Res.*, Aug. 2011.

#### Five Additional Publications:

Quay, P.D., J. Stutsman, R.A. Feely, and L.W. Juranek (2009), Net community production rates across the subtropical and equatorial Pacific Ocean estimated from air-sea  $\delta^{13}\text{C}$  disequilibrium, *Global Biogeochem. Cycles*, 23, GB2006, <http://dx.doi.org/10.1029/2008GB003193>.

- Juranek L. W., and P. D. Quay (2005), In vitro and in situ gross primary and net community production in the North Pacific Subtropical Gyre using labeled and natural abundance isotopes of dissolved O<sub>2</sub>, *Global Biogeochem. Cycles*, 19, GB3009, <http://dx.doi.org/10.1029/2004GB002384>.
- Juranek, L.W., R. Hamme, J. Kaiser, R. Wanninkhof, and P.D. Quay (2010), Evidence of O<sub>2</sub> consumption in underway seawater lines - implications for air-sea O<sub>2</sub> and CO<sub>2</sub> fluxes, *Geophys. Res. Lett.*, 37,1, <http://dx.doi.org/10.1029/2009GL040423>.
- D. Ianson, R.A. Feely, C.L. Sabine, and L.W. Juraneck, Features of coastal upwelling regions that determine net air-sea CO<sub>2</sub> flux, *Journal of Oceanography*, 65(5), 677-687, <http://dx.doi.org/10.1007/s10872-009-0059-z>.
- Mathis, J.T., K.L. Shake, T.J. Weingartner, L.W. Juraneck, and R.A. Feely, Carbon biogeochemistry of the Northern Gulf of Alaska and Prince William Sound Part I: Ocean Acidification and the seasonal undersaturation of aragonite, *Cont. Shelf Res.*, submitted.

**(d) Synergistic Activities:**

- Involved in various field campaigns (CLIVAR Repeat Hydrography Cruises, NOAA West Coast CarbonCruise, IOS Coastal Carbon Cruise, Hawaii Ocean Time-series Cruises).
- Reviewer for *Global Biogeochemical Cycles*, *Continental Shelf Research*, *Deep-Sea Research*, *JGR-Oceans*, *Nature*.
- Convener for Ocean Acidification Sessions at AGU 2010 Fall Meeting and ASLO 2011 Aquatic Sciences Meeting.
- AGU and ASLO member.

**(e) Collaborators and Other Affiliations:**

S. Alin (NOAA/PMEL); R. Feely (NOAA PMEL); R. Hamme (U. Victoria), D. Ianson (Inst. of Ocean Sciences, Canada); J. Mathis (UAF); P. Quay (U. Washington); C. Sabine (NOAA PMEL); R. Sonnerup (U. Washington)

**Graduate and Postdoctoral Advisors**

P. Quay, UW (Graduate)  
R. Feely, NOAA/PMEL (Postdoctoral)