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Dual citizenship: USA and Switzerland
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Education

Environ. Geology Univ. Colorado 1985 B.S.
Chem. Oceanography LSU 1992 M.S.
Chem. Oceanography LSU 1997 Ph.D.

Professional Experience

2007-present	USGS-Santa Cruz, CA, Senior Research Oceanographer
2007-present	UCSC Research Associate and Lecturer, Institute of Marine Sciences
2007-present	Assoc. Editor; Journal of Hydrology, Estuarine Coastal Shelf Science
2013-present	Editor-in-Chief; Journal of Hydrology-Regional Studies
1999-2007	USGS-St. Petersburg, FL, Research Oceanographer
	Elected to FISC (FL Integrated Sci. Center) Science Council, Executive Committee
	Gov't leadership 101/201 training
2004-2005	Interim Deputy Dir. of Science; FISC
1998-1999	USGS-St Petersburg, FL, Postdoctoral Fellow
1988-1998	LUMCON – Res. Assoc./student

Current (2009-) Projects

-Examining historic and modern hypoxia and sediment dynamics off the Mississippi River using a multi-proxy approach.
-Nutrient loading by coastal groundwater discharge and the evolution of harmful algal blooms.
-Submarine groundwater discharge as a vector of nutrients and other dissolved elements to coastal oceans
-The role of watershed climate cycles on coastal groundwater discharge
-Examining coastal groundwater discharge in Puget Sound, Hawaii, and California
-Climate Change, sea level rise impacts on a Pacific atoll coastal aquifer

Advised to date: 5 Post-docs, 7 PhD/MS students

Recent (2005-) peer-reviewed Publications

Themes: U/Th series isotopes as tracers of hydrologic/coastal processes
Submarine groundwater discharge (SGD) and coastal pollution/eutrophication
Historic contaminant reconstruction in marine sediments

Prouty, NG, Fackrell, JK, Swarzenski, PW, Johannesson, K., ad Palmore, D. 2014. SGD-derived Nutrient and Trace element to a Nearshore Kona Coral Ecosystem: Experimental Mixing Model Results. Aquatic Geochemistry, In Review

Swarzenski, PW. Insights gained from a half-century of 210Pb dating. In, Encyclopedia of Scientific Dating Methods, Springer. In Press.

Smith, CG, Swarzenski, PW, Price, RM, and Stalker, JC, Behavior of select metals and nutrients across a large carbonate dispersive mixing zone. CATENA Special Volume: *Tropical and Caribbean Hydrology*. In Prep.

Smith, CG., Swarzenski, PW., Price, RM, and Stalker, JC, Geochemical Investigation of surface water – groundwater interactions within a mangrove ecotone in the Everglades National Park. *Aquatic Geochemistry*. In Prep.

Baskaran, M. Jweda, J., Newton, JL, Stringer, C. and Swarzenski, PW, Investigation on the Adsorption-Desorption Rate Constants and Retardation Factors Derived from 223,224,226,228Ra and 222Rn Isotopes in the Floridan Aquifer: Implication to the Mobility of Redox-Sensitive Species. Chemical Geology. In review.

Johnson, C., Swarzenski, PW, Richardson, CM, Smith, CG, Kroeger, K, and Ganguli, PM 2013, Ground-truthing electrical resistivity methods in support of submarine groundwater discharge studies: Examples from Hawaii, Washington, and California. Journal of Environmental and Engineering Geophysics. Accepted

Ganguli, PM, Swarzenski PW, Richardson CM, Johnson, C, and Flegal, AR. 2014, Coastal Lagoons, a Source of Monomethylmercury in Nearshore Environments – A Coupled Geochemical and Hydrogeologic Evaluation of the Driving Mechanisms for Production and Transport. Environmental Science and Technology In Review

Odigie, K, Flegal, AR, Cohen, AS., and Swarzenski , PW, 2014. Using Lead Isotopes and Trace Element Records from Two Contrasting Lake Tanganyika Sediment Cores to Assess Watershed - Lake Exchange. Applied Geochemistry. In Press

Willems, P. Battelaan, O., Hughes, D., and Swarzenski, PW. 2014. Editorial for Journal of Hydrology: Regional Studies. Journal of Hydrology: Regional Studies 1 (2014) A1–A5. Journal of Hydrology: Regional Studies 1 (2014) A1–A5 http://dx.doi.org/10.1016/j.ejrh.2014.06.004

Sheibley, R.W., Enache, M., Swarzenski, P.W., Foreman, and J.R., Moran, 2014, Assessing the use of diatom-based critical loads of nitrogen deposition in lakes from three National Parks in Washington State. Water Air Soil Pollut. 2014; 225: 1857; doi: 10.1007/s11270-013-1857-x

Ganguli, PM, Swarzenski, PW, Dulaiova, H, Glenn, CR, and Flegal, AR 2014 Mercury dynamics in a coastal aquifer: Maunalua Bay, Oahu, Hawaii. Estuarine, Coastal and Shelf Science 140 (2014) 52e65. http://dx.doi.org/10.1016/j.ecss.2014.01.012

Cohen, A. McGlue, M., Ellis, G., Zani, H., Swarzenski, P.W., Assine, M., Silva, A. 2014, Lake Formation, characteristics and evolution in retroarc Deposystems: A synthesis of data from the Andean Orogen and its associated basins. Geol. Soc. America Memoir *Geodynamics of a Cordilleran Orogenic System: The Central Andes of Argentina and Northern Chile. Edited by Peter G. DeCelles, Mihai N. Ducea, Barbara Carrapa, and Paul A. Kapp. ISBN 978-0-8137-1212-3*

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Batelaan, O., Hughes, D.A., Swarzenski, P.W., Willems, P., Bárdossy, A., Charlet, L., Corradini, C., Georgakakos, K.P., Kitanidis, P.K.,Syme, G., 2013. Editorial Journal of Hydrology: Regional Studies. J. Hydrol. 507, A1–A2. DOI: 10.1016/j.jhydrol.2013.10.023

Barnard, PL, Foxgrover, A, Elias, E, Erikson, LH, Hein, JR, McGann, M, Rosenbauer, R, Mizell, K, Swarzenski, PW, Takesue, R, Wong, F, and Woodrow, D, 2013, Integration of bed characteristics, geochemical tracers, in situ measurements and numerical modeling for assessing the provenance of beach sand in the San Francisco Bay Coastal System. Marine Geology, http://dx.doi.org/10.1016/j.margeo.2012.11.008

Rosenbauer, RJ, Foxgrover, A, Hein, JR, and Swarzenski, PW, 2013. Efficacy of rare earth element concentrations and $^{143}Nd/^{144}Nd$ and $^{87}Sr/^{86}Sr$ isotope ratios for assessing provenances of sand-sized sediment in San Francisco Bay Coastal System. Marine Geology http://dx.doi.org/10.1016/j.margeo.2013.01.002.

Swarzenski, PW, Storlazzi, CD, Smith, CG, Baskaran, M, Johnson, C, and Diaz, L 2013, Utilizing short-lived radionuclides to tracing sediment resuspension after the 2011 Fukushima tsunami in Pelekane Bay, Hawaii. Journal of Environmental Radioactivity, In prep.

Swarzenski, PW, Dailer, ML, Glenn, CR, Smith, CG and Storlazzi, CD 2013, A geochemical and geophysical assessment of coastal groundwater discharge at select sites in Maui and Oahu, Hawaii. In, Groundwater in the Coastal Zones of Asia Pacific. Ed C. Wetzelhuetter Springer Pp. 27-46.

Swarzenski, PW., Baskaran, M., Rosenbauer, R., Edwards, B., Land, MA, 2013, A Combined Radio- and Stable-Isotopic Study of a California Coastal Aquifer System. *Water*, *5*, 480-504; doi:10.3390/w5020480

Conaway, CH., Storlazzi, C, Draut, AE and Swarzenski, PW, 2013, Short-term variability of 7Be and 210Pb atmospheric deposition in a Pacific coastal watershed of Monterey bay, California. *Applied Rad Chemistry*. 120: 94-103 http://dx.doi.org/10.1016/j.jenvrad.2013.02.004

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Swarzenski, P.W., Storlazzi, C.D., Presto, M.K., Gibbs, A.E., Smith, C.G., Dimova, N. T., Dailer, M.L., and Logan, J.B., 2012, Nearshore morphology, benthic structure, hydrodynamics, and coastal groundwater discharge near Kahekili Beach Park, Maui, Hawaii: U.S. Geological Survey Open-File Report 2012–1166. http://pubs.usgs.gov/of/2012/1166/

Sheibley, R.W., Foreman, J.R., Moran and Swarzenski, P.W., 2012, Atmospheric deposition, water-quality, and sediment data for selected lakes in Mount Rainer, North Cascades, and Olympic National Parks, Washington, 2008–10: U.S. Geological Survey Data Series 721, 34 p. http://pubs.usgs.gov/ds/721/pdf/ds721.pdf

Storlazzi, C.D., Field, M.E., Presto, M.K., Swarzenski, P.W., Logan, J.B., Reiss, T.R., Elfers, T.C., Cochran, S.A., Torresan M.E., and Chezar, H., 2012, Coastal circulation and sediment dynamics in Pelekane and Kawaihae Bays, Hawaii—measurements of waves, currents, temperature, salinity, turbidity, and geochronology: November 2010–March 2011: U.S. Geological Survey Open-File Report 2012-1264, 102 p http://pubs.usgs.gov/of/2012/1264/

Swarzenski, P.W., Storlazzi, C.D., Presto, M.K., Gibbs, A.E., Smith, C.G., Dimova, N.T., Dailer, M.L., and Logan, J.B., 2012, Nearshore morphology, benthic structure, hydrodynamics, and coastal groundwater discharge near Kahekili Beach Park, Maui, Hawaii: U.S. Geological Survey Open-File Report 2012-1166, 34 p. (Available at http://pubs.usgs.gov/of/2012/1166/.)

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Izbicki, JA, Swarzenski, PW, Burton, CA, Van DeWerfhorst, LC, Holden, PA, and Dubinski, EA, 2012, Sources of fecal indicator bacteria to groundwater, Malibu Lagoon, and near-shore ocean water, Malibu, California. USA Annals of Environmental Science. Vol . 6, 35-86.

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Smith, CG. and Swarzenski, PW. 2012, An Investigation of submarine-groundwater-borne nutrient fluxes to the west Florida Shelf and recurrent harmful algal blooms. Limnology and Oceanography, doi:10.4319/lo.2012.57.2.000

Ganguli, PM, Conaway, CH, Swarzenski, PW, Izbicki, JA, and Flegal, AR, 2012, Mercury speciation and transport in a California coastal lagoon system: The role of submarine groundwater discharge and monomethyl mercury production *Environmental Science and Technology*. 2012, 46, 1480−1488. http://dx.doi.org/10.1021/es20278u

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McGlue, MM, Ellis, GS, Cohen, AS and Swarzenski PW, 2011. Playa-lake sedimentation and organic matter accumulation in an Andean piggy-back Basin: The Recent record from the Cuenca de Pozuelos, NW Argentina. *Sedimentology* doi: 10.1111/j.1365-3091.2011.01304.x

Weinstein, Y, Shalem, Y, Yechieli, Y, Burnett, WS, Swarzenski, PW, Herut, B, 2011, What is the nutrient contribution of Submarine Groundwater Discharge to the coastal seawater? An example from Dor bay, Israel. *Environmental Science and Technology*. 45: 5195-5200 doi: 10.1021/es104394r

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Smith, CG, Swarzenski, PW, Dimova, N. and Zhang, J. 2011, Natural Ra and Rn tracers to quantify water exchange and movement in reservoirs. In, M. Baskaran (ed.), *Handbook of Environmental Isotope Geochemistry*. Advances in Isotope Geochemistry, Springer Verlag Berlin Heidelberg doi: 10.1007/978-3-642-10637-8_18

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Dinicola, RS, Swarzenski, PW, and Dougherty, J, 2011, Select inorganic and organic loadings to nearshore Liberty Bay, Puget Sound, WA: *In*-- Takesue, R.K. (ed.), Nearshore and ecological characteristics associated with urbanization in Liberty Bay, a small semi-urban embayment in Puget Sound, Washington: U.S. Geological Survey Scientific Investigations Report 2011-5152, pp. 41-51.

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Takesue, RK, and Swarzenski, PW, 2010, Over 100 years of background-level sedimentary metals, Nisqually River Delta, South Puget Sound, Washington, US Geological Survey Open File Report 2010-1329.

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Swarzenski. P.W., Dellapenna, TM., Reich, C.D. and Noll, CJ. 2009. Examining Submarine Groundwater Discharge into Simpson Bay, Alaska with Electrical Resistivity and Radon. EEGS/SAGEEP Proceedings volume. Ft Worth, TX March 31-April 2, 2009

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Swarzenski, P.W. and Izbicki, JA. 2009. Examining coastal exchange processes within a sandy beach using geochemical tracers, seepage meters and electrical resistivity. Estuarine, Coastal and Shelf Science, 83, 77-89, doi:10.1016/j.ecss.2009.03.027

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