

## Education

- 1997 Ph.D.: Chemical Oceanography, University of Hawaii, Honolulu, Hawaii.  
1992 M.S.: Chemical Oceanography, University of Hawaii, Honolulu, Hawaii.  
1986 B.S.: Chemistry, DePaul University, Chicago Illinois.

## Experience

- 2001-pres. Affiliate Assistant Professor, Department of Oceanography, University of Washington, Seattle.
- 1999-pes Research Scientist, Joint Institute for the study of the Atmosphere and Ocean, University of Washington and the Pacific Marine Environmental Laboratory (PMEL), Seattle, Washington.
- 1997-pres Post Doctoral Fellow, National Research Council and Pacific Marine Environmental Laboratory, Seattle, Washington.

## LEADERSHIP EXPERIENCE

- 2006 Vents Program 5 year plan, Lead PI.  
2006 Session co-chair Fall 2006 AGU Meeting: "Recent Deep-Sea Eruptions"  
2006-2009 Ridge 2000 Steering Committee  
2002 Convener: 2002 Ocean Sciences Meeting: "Chemical Oceanography: Metals"  
1995 Vice President, Oceanography student association, University of Hawaii (UH)  
1992 Student-Faculty Representative, Dept. of Oceanography, UH.  
1991 President, Oceanography student association, UH.

## PROFESSIONAL SOCIETIES

Sigma-Xi  
American Geophysical Union  
American Society of Limnology and Oceanography

## MANUSCRIPTS IN PROGRESS

- Resing, J. A.**, E. T. Baker, F. Martinz, B. Taylor, G. Massoth, J. Lupton, S. Walker, G. Lebon. 2005. The extent and nature of hydrothermal venting on the East Lau Spreading Center in the Lau Back Arc Basin. To be submitted to *G<sup>3</sup>*. Rough draft available.
- Ranville, M.A., C. S. Buck, W. M. Landing, L.S. Cutter, G. A. Cutter, **J. Resing**, A. R. Flegal. 2005. Atmospheric contamination over the North Pacific Ocean. To be submitted to *Mar. Chem.* Draft Available.
- Resing, J.A.**, E. T. Baker, G. Lebon, R. W. Embley, W. W. Chadwick, Jr., J. E. Lupton, G. J.

- Massoth and K. Nakamura. 2004 The expulsion of magmatic fluids at NW Rota Submarine Volcano. In revision *Economic Geology*.
- German, C.R., E.T. Baker, D.P. Connelly, J.E. Lupton, J. Resing, R.D. Prien, S.L. Walker, H.N. Edmonds, and C.H. Langmuir (2006): Hydrothermal exploration of the Fonualei Rift and spreading centre and the North East Lau spreading centre. In press: *Geochem. Geophys. Geosyst.*.

## PUBLICATIONS IN PEER REVIEWED JOURNALS

- Lupton, J., D. Butterfield, M. Lilley, L. Evans, K.-I. Nakamura, W. Chadwick, Jr., J. Resing, R. Embley, E. Olson, G. Proskurowski, E. Baker, C. de Ronde, K. Roe, R. Greene, G. Lebon, and C. Young (2006): Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. *Geochem. Geophys. Geosyst.*, 7, Q08007, doi: 10.1029/2005GC001152.
- Baker, E.T., **J.A. Resing**, S.L. Walker, F. Martinez, B. Taylor, and K.-I. Nakamura (2006): Abundant hydrothermal venting along melt-rich and melt-free ridge segments in the Lau back-arc basin. *Geophys. Res. Lett.*, 33, L07308, doi: 10.1029/2005GL025283.
- Martinez, F., B. Taylor, E. Baker, **J. Resing**, S. Walker. 2006. Opposing trends in crustal thickness and spreading rate along the back-arc Eastern Lau Spreading Center: Implications for controls on ridge morphology, faulting, and hydrothermal activity, *Earth Planet. Sci. Lett.* 245, 655–672, doi:10.1016/j.epsl.2006.03.049.
- Buck, C. S., W. M. Landing, **J.A. Resing**, G. T. Lebon. 2006. Aerosol Iron and Aluminum Solubility in the Northwest Pacific Ocean: Results from the 2002 IOC Cruise. *Geochem. Geophys. Geosyst.* 7, No. 4, doi:10.1029/2005GC000977.
- Embley, R.W., Chadwick, W.W., Baker, E.T. Butterfield, D.A., **Resing, J.A.** de Ronde, C.E. Tunnicliffe, V., Lupton, J.E., Juniper S.K., Rubin, K.H., Stern, R.J., Lebon, G.T., Nakamura, K., Merle, S.G., Hein, J.R., Wiens, D.A., Tamura, Y. 2006. Long-Term Eruptive Activity at a Submarine Arc Volcano, *Nature*, doi:10.1038/nature04762
- Aguilar-Islas, A. M., **J.A. Resing**, K. W. Bruland. 2006. Catalytically enhanced spectrophotometric determination of manganese in seawater by flow-injection analysis with a commercially available resin for on-line preconcentration. *Limnol. Oceanogr.: Methods*, 4, 105–113.
- Dziak, R., J. Cowen, E. Baker, D. Bohnenstiehl, B. Chadwick, **J. Resing**, R. Embley. 2006. The February 2005 Endeavour segment earthquake swarm: Lessons learned from 12 years of volcanic real-time event detection and response on the Juan de Fuca and Gorda Ridges. *EOS, Trans. Am. Geophys. Un.*, **87 (4)**.
- de Ronde, Cornel E. J.; Hannington, M. D.; Stoffers, P.; Wright, I. C.; Ditchburn, R. G.; Reyes, A. G.; Baker, E. T.; Massoth, G. J.; Lupton, J. E.; Walker, S. L.; Greene, R. R.; Soong, C. W. R.; Ishibashi, J.; Lebon, G. T.; Bray, C. J.; and **Resing, J. A.**: 2005: Evolution of a Submarine Magmatic-Hydrothermal System: Brothers Volcano, Southern Kermadec Arc, New Zealand, *Econ. Geol.* 100, no. 6, 1097-1133.
- Gharib, J. J., F. J. Sansone, **J. A. Resing**, E. T. Baker, J. E. Lupton, G. J. Massoth. 2005. Methane dynamics in hydrothermal plumes over a superfast spreading center: East Pacific Rise 28-32S *Journal Geophysical Research*, 110(B10), B10101, doi: 10.1029/2004JB003531.
- Resing, J.A.**, J.E. Lupton, R.A. Feely, M.D. Lilley. 2004. CO<sub>2</sub> and <sup>3</sup>He in hydrothermal plumes: Implications for Mid-Ocean Ridge CO<sub>2</sub> flux, *Earth Planet. Sci. Lett.*, 226, 449-464, DOI: 10.1016/j.epsl.2004.07.028.
- Hey, R.N., E. Baker, D. Bohnenstiehl, G. Massoth, M. Kleinrock, F. Martinez, D. Naar, D. Pardee 1, J. Lupton, R. Feely, J. Gharib, **J. Resing**, C. Rodrigo, F. Sansone, S. Walker. 2004. Tectonic and Volcanic Segmentation and Controls on Hydrothermal Venting along Earth's Fastest Active Seafloor Spreading System, EPR 27°-32°S, *Geochem. Geophys. Geosyst.*, 5,

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- Embley, R.W., E. T. Baker, W. W. Chadwick, Jr., J. E. Lupton, **J. A. Resing**, G. L. Massoth, K. Nakamura. 2004. Explorations of Mariana Arc Volcanoes Reveal New Hydrothermal Systems, *EOS, Trans. AM. Geophys. Un.* 85, no. 4. 37,39.
- Baker, E.T., R.P. Lowell, **J.A. Resing**, R.A. Feely, R.W. Embley, G.J. Massoth, and S.L. Walker 2004. Decay of hydrothermal output following the 1998 seafloor eruption at Axial Volcano: Observations and models, *J. Geophys. Res.* 109, B01205, doi:10.1029/2003JB002618.
- Resing, J.A.** and F.J. Sansone. 2002: The chemistry of lava-seawater interactions II: The elemental signature. *Geochim. Cosmochim. Acta* 66, no.11, 1925-1941
- Sansone, F.J., C.R. Benitez-Nelson, **J.A. Resing**, E.H. DeCarlo, S.M. Vink, J.A. Heath, and B.J. Huebert 2002: Geochemistry of atmospheric aerosols generated from lava-seawater interactions. *Geophys. Res. Lett.* 29 (9), 10.1029/2001GLO13882.
- Baker, E.T., R.N. Hey, J.E. Lupton, **J.A. Resing**, R.A. Feely, J.J. Gharib, G.J. Massoth, F.J. Sansone, M. Kleinrock, F. Martinez, D.F. Naar, C. Rodrigo, D. Bohnenstiehl, and D. Pardee (2002): Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5°–32.3°S. *J. Geophys. Res.* 107 (B7), 10.1029/2001JB000651.
- Resing, J.A.**, R.A. Feely, G.J. Massoth, and E.T. Baker. 1999. The water column chemical signature after the 1998 eruption of Axial Volcano. *Geophys. Res. Lett.* 26, 3645-3648.
- Feely, R.A., E.T. Baker, G.T. Lebon, J.F. Gendron, **J.A. Resing**, and J.P. Cowen. 1999 . Hydrothermal particle composition at Axial Volcano following the January–February 1998 eruption. *Geophys. Res. Lett.* 26, 3649-3652.
- McLaughlin-West, E.A., E.J. Olson, M.D. Lilley, **J.A. Resing**, J.E. Lupton, E.T. Baker, and J.P. Cowen. 1999. Variations in hydrothermal methane and hydrogen concentrations following the 1998 eruption at Axial Volcano. *Geophys. Res. Lett.* 26 , 3453-3456.
- Resing, J.A.**, F.J. Sansone. 1999. The chemical signature of lava-seawater interactions: The generation of acidity. *Geochim. Cosmochim. Acta.*, 63, 2183-2198.
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- Wheat, C.G., M.J. Mottl, E.T. Baker, R.A. Feely, J.E. Lupton, F.J. Sansone, **J.A. Resing**, G.T. Lebon, and N.C. Becker. 1997. Chemical anomalies in the water column caused by low-temperature hydrothermal venting: Baby Bare Outcrop on the eastern flank of the Juan de Fuca Ridge. *J. Geophys. Res.*, 102, no. B7, 15433-15446.
- Duennebie, F.K., N.C. Becker, J. Caplan-Auerbach, D.A. Clague, J. Cowen, M. Cremer, M. Garcia, F. Goff, A. Malahoff, G.M. McMurtry, B.P. Midson, C.L. Moyer, M. Norman, P. Okubo, **J.A. Resing**, J.M. Rhodes, K. Rubin, F. J. Sansone, J.R. Smith, K. Spencer, Xiyuan Wen, C.G. Wheat. 1997. Researchers rapidly respond to submarine activity at Loihi Volcano, Hawaii. *EOS Trans. Am. Geophys. Un.*, 78, no.22, pp. 229, 232-233.
- Resing, J.A.**, F.J. Sansone. 1996. Al and pH anomalies in the Manus Basin: Reappraised: Comments on the paper by T. Gamo et al., "Hydrothermal plumes in the eastern Manus Basin, Bismarck Sea: CH<sub>4</sub>, Mn, Al and pH anomalies". *Deep Sea Res. I*, 43, 1867-1872.
- Mottl, M.J., F.J. Sansone, C.G. Wheat, **J.A. Resing**, E. Baker, and J.E. Lupton. 1995. Hydrothermal plumes along the East Pacific Rise, 8o40' to 11o50'N: Dissolved manganese and methane. *Geochim. Cosmochim. Acta.* 59, 4147-4165.

- Sansone, F.J., **J.A. Resing**. 1995. Hydrography and geochemistry of sea-surface hydrothermal plumes resulting from Hawaiian coastal volcanism. *J. Geophys. Res.*, 100, no. C7, 13555-13569.
- Measures, C.I., J.C. Yuan, **J. Resing**. 1995. Determination of iron in seawater by flow injection analysis using in-line preconcentration and spectrophotometric detection. *Mar. Chem.*, 50, 3-12.
- Landing, W.M., G.A. Cutter, J.A. Dalziel, A.R. Flegal, R.T. Powell, D. Schmidt, A. Shiller, P. Statham, S. Westurlund, **J. Resing**. 1995. Analytical intercomparison results from the 1990 Intergovernmental Oceanographic Commission Open-Ocean Baseline Survey for trace metals: Atlantic Ocean. *Mar. Chem.*, 49, 253-265.
- Resing, J.A.**, C.I. Measures. 1994. Fluorometric determination of Al in seawater by flow injection analysis with in-line preconcentration. *Anal. Chem.*, 66, no. 22, 4105-4111.
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- Karl, D.M., **J. Resing**. 1993. Hydrogen peroxide in the Palmer-LTER region: III. Photochemical interactions with dissolved organic matter. *Antarc. J. U.S.*, 28, no. 5, 231-234.
- Resing, J.**, G. Tien, R. Letelier, D. Karl, D. Jones. 1993. Hydrogen peroxide in the Palmer-LTER region: II. Water column distributions. *Antarc. J. U.S.*, 28, no. 5, 227-229.
- Karl, D.M., **J. Resing**, G. Tien, R. Letelier, D. Jones. 1993. Hydrogen peroxide in the Palmer-LTER region: I. An introduction. *Antarc. J. U.S.*, 28, no. 5, 225-226.
- Lupton, J.E., E.T. Baker, M.J. Mottl, F.J. Sansone, C.G. Wheat, **J.A. Resing**, G.J. Massoth, C.I. Measures, R.A. Feely. 1993. Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8o 45'N to 11o50'N. *Geophys. Res. Lett.*, 20, no. 24: 2913-2916.
- Resing, J.A.**, M.J. Mottl. 1992. Determination of manganese in seawater by flow injection analysis using online preconcentration and spectrophotometric detection. *Anal. Chem.*, 64, 2682-2687.
- Sansone, F.J., **J.A. Resing**, G.W. Tribble, P.N. Sedwick, K.M. Kelly, K. Hon. 1991. Lava-seawater interactions at shallow-water submarine lava flows. *Geophys. Res. Lett.* 18, no. 9: 1731-1734.

### 1<sup>st</sup> Authored Abstracts and Presentations

- Resing, J.**, Baker, E, Lebon, G, Walker, S, Haymon, R, Nakamura, K Lupton, J. 2006. The Chemistry of Hydrothermal Plumes Along the Galapagos Spreading Center, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V14A-08. **INVITED**
- Resing, J.**, E. Baker, F. Martinez, G. Lebon, S. Walker, G. Massoth, B. Taylor, J. Lupton, R. Greene, K. Nakamura. 2004. Characteristics of Hydrothermal Activity in the Lau Back Arc Basin, *Eos Trans. AGU*, Fall 2004 Meeting.
- Resing, J.**, G. Lebon, E. Baker, J. Lupton, K. Nakamura, G. Massoth, R. Embley. 2003. Geochemical Characterization of Hydrothermal Plumes Above Hydrothermally Active Volcanos on the Mariana Arc, *Eos Trans. AGU*, Fall 2003 Meeting
- Resing, J.**, G. Wheat, E. Baker, 2003, An integrated study approach to Time Critical Studies, White paper for Ridge 2000 Community Meeting, Boulder, CO, November 6-8, 2003.
- Resing, J.**, G. Wheat, H. Jannasch, J. Plant, E. Baker, W. Lavelle, (2002) Long-term trace element monitoring at Axial Volcano using Osmotic samplers in hydrothermal Plumes. *EOS-Trans AGU*, 83, Ocean Science meeting Abstract OS31F-88.
- Resing, J.**, G. Lebon, E. Baker, S. Walker, K. Nakamura, B. Silvers. 2002. Using Hydrothermal Plumes and Their Chemical Composition to Identify and Understand Hydrothermal

- Activity at Explorer Ridge. *Eos Trans. AGU*, 83, (47), Fall Meeting Suppl., Abstract T11C-1265.
- Resing, J.**, R. Feely, E. Baker, J. Lupton. 2000. The Evolution of the Water-Column-Chemical Signature of the 1998 Axial Eruption at Axial Volcano, Juan de Fuca Ridge. *EOS Trans. AGU*, 80, no. 49, p.OS5: **INVITED**.
- Resing, J.**, R. Feely, E. Baker, G. Lebon, G. Massoth, R. Collier. 1998. The Water-Column-Chemical Signature of the 1998 Axial Eruption: Axial Volcano, Juan de Fuca Ridge. *EOS Trans. AGU*, 79, no. 45, p. F831-832.
- Resing, J.**, R. Feely, G. Massoth, E. Baker, J. Lupton. 1998. The chemical signature of hydrothermal plume waters along 28°-32° S. East Pacific Rise. *EOS Trans. AGU*, 79, no. 45, p. F922.
- Resing, J.A.**, C.G. Wheat, R.A. Feely, F.J. Sansone, E.T. Baker, M.J. Mottl. 1998. The chemistry of hydrothermal plume along 9-12N EPR. RIDGE Workshop on the Results of Field Studies along the East Pacific Rise, 9 - 10N, Santa Barbara, CA, September 1998.
- Resing, J.A.**, and F.J. Sansone, 1997. The generation of acidity from lava seawater interactions. *EOS Trans. AGU*, 78, no. 46, p F804-F805.
- Resing, J.A.**, F.J. Sansone, X.Y. Wen, B. Midson. 1996. The geochemical signature of fluids issuing from Loihi Seamount after an intense seismic event. *EOS Trans. AGU*, 77, no. 46, p. F398.
- Resing, J.A.**, F. Sansone. 1995. Lava-seawater experiments and the unique chemical signature of lava-seawater interactions. *EOS Trans. AGU*, 76, no. 46, p. F709.
- Resing, J.A.**, F. Sansone. Chemical signatures of submarine eruptions. Gordon Research Conference, June, 1995.
- Resing J.A.** and F.J. Sansone. 1994. The chemical signature of basalt-seawater interactions. *EOS Trans. AGU*, 75, no.44, p. 706.
- Resing J.A.**, C.I. Measures. 1994. Application of micro-column techniques to trace element determination in flow injection analysis. Winter Conference on Flow Injection Analysis (WC-FIA 94), San Diego, Ca., Jan. 1994.
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- Resing, J.A.**, F.J. Sansone, C.G. Wheat, C.I. Measures, G.M. McMurtry, P.N. Sedwick, G.J. Massoth. 1992. The extraction of aluminum from hot rock: The elemental signature of an eruptive vs. classical hydrothermal system. *EOS Trans. AGU*, 73, no. 43, p. 254.
- Resing, J.A.**, F.J. Sansone. 1991. Laze and the nearshore environment at Wahaula Hawaii. Seminar on Vog and Laze, University of Hawaii at Hilo July 1991.
- Resing, J.A.**, M.J. Mottl. 1991. Determination of manganese in seawater using FIA with online preconcentration and spectrophotometric detection. *EOS Trans. AGU*, 72, p. 264.
- Resing, J.A.**, F.J. Sansone, G.W. Tribble, K. Hon. 1990. Process-related variability of lava seawater interactions, Kalapana, Hawaii. *EOS Trans. AGU*, 71, p. 1722.

### Co-authored Presentations and Abstracts

- Buck, C S, Landing, W M, **Resing, J.**, Lebon, G T. 2006. The Solubility of Aerosol Iron and Aluminum in the Pacific Ocean: Results From the CLIVAR/CO2 Repeat Hydrography Cruises, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract A53A-0151.
- Heintz, M B, Haymon, R, Valentine, D L, Carlson, C, **Resing, J.**, Baker, E, Lebon, G, Walker, S, Ehrhardt, C, Swan, B. 2006. Microbial Community Structure in Hydrothermal Plumes of the Galapagos Spreading Center, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V23A-0591.

- Butterfield, D A, Embley, R W, Chadwick, W W, Lupton, J E, Nakamura, K, Takano, B, de Ronde, C, **Resing, J**, Bolton, S, Baross, J. 2006. Up-Close Fluid Sampling at a Deep Submarine Lava Eruption, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V13C-07.
- Walker, S L, Baker, E T, Resing, J A, Lebon, G T, Lupton, J E, Greene, R R. 2006. Lateral Dispersion of Volcanic Ash From the Flanks of an Actively Erupting Submarine Volcano, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V23B-0610.
- Lupton, J, Lilley, M, Butterfield, D, Cowen, J, Von Damm, K, Baker, E, **Resing, J**, Embley, R, Chadwick, W, Love, B, Greene, R, Evans, L. 2006. Changes in Hydrothermal Gas Chemistry Associated with Deep-Sea Eruptive Events, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V13C-08.
- Nakamura, K, Embley, R W, Chadwick, W W, Butterfield, D A, Takano, B, Resing, J A, de Ronde, C E, Lilley, M D, Lupton, J E, Merle, S G, Inagaki, F. 2006. Liquid and Emulsified Sulfur in Submarine Solfatara Fields of two Northern Mariana Arc Volcanoes, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V23B-0608.
- Baker, E T, Resing, J A, Walker, S L, Lebon, G T, Nakamura, K, Haymon, R M, White, S M, Macdonald, K C. 2006. Hydrothermal Plume Mapping Along the Hotspot-affected Galapagos Spreading Center Finds High-Temperature Vent Sites are Anomalously Scarce, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V13C-08. V14A-06.
- Haymon, R M, Anderson, P G, Baker, E T, Resing, J A, White, S M, Macdonald, K C. 2006. Discovery and Distribution of Black Smokers on the Western Galapagos Spreading Center: Implications for Spatial and Temporal Controls on High Temperature Venting at Ridge/Hotspot Intersections, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V13C-08. V14A-07
- Buck, C S, Landing, W M., **Resing, J A**, Lebon, G T., 2006. The Solubility and Deposition of Aerosol Fe and Other Trace Elements to the Pacific Ocean, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16M-21.
- Landing, W M, Measures, C, **Resing, J**. 2006. Ocean Sections of Dissolved Fe, Ni, Cu, Zn, Cd, and Pb: Results from the CLIVAR Repeat Hydrography Program, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16M-22.
- Ranville, M A, Cutter, G A, Buck, C S, Landing, W M, Cutter, L S, Resing, J, Flegal, A R. 2006. Evidence of Asian Coal Combustion in North Pacific Surface Waters and Atmosphere, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16M-23.
- Martinez, F, Taylor, B, Baker, E T, **Resing, J A**, Walker, S L. 2005. Opposing Trends in Crustal Thickness and Spreading Rate Along the Back-arc Eastern Lau Spreading Center: Controls on Ridge Morphology, Faulting, and Hydrothermal Activity *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T31A-0473.
- Massoth, G J., et al., 2005. Plume-Vent Fluid Connections along the Tonga-Kermadec arc, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract V51C-1495.
- Lupton, J., et al., Carbon Fluxes from Submarine Arc Volcanoes - examples from the Mariana and Kermadec Arcs, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract V51C-1498.
- Street, J H, A. Paytan, A, R G Labiosa, D. Golan, A. Post, **J. Resing**. 2004. Atmospheric Dust Deposition as a Source of Nutrients and Trace Metals to the Northern Gulf of Aqaba, *Eos Trans. AGU*, Fall 2004 Meeting.
- Lebon, G, **J. Resing**, E. Baker, R. Embley, J. Lupton. 2004. Chemical Characteristics of Plumes above and Around NW-Rota Submarine Volcano: Before and During the March 2004 Eruption., *Eos Trans. AGU*, Fall 2004 Meeting.
- Edmonds, H N, C. R. German, J.A. Breier, D.P. Connelly, A. Townsend-Small, **J.A. Resing**, C. Aumack, E.T. Baker, C.H. Langmuir. 2004. Plume mapping and shipboard chemical data used to locate new vent sites in the Lau Basin, *Eos Trans. AGU*, Fall 2004 Meeting.

- Butterfield, D. A., K. K. Roe, S.A. Bolton, J.A. Baross, J.E. Lupton, M.D. Lilley, R.W. Embley, W.W. Chadwick, **J.A. Resing**. 2004. Overview of Vent Fluid Chemistry From the Marianas Volcanic Arc, *Eos Trans. AGU*, Fall 2004 Meeting.
- Cowen, J.P., E.T. Baker, R.P. Dziak, M.M. Lilley, D. Kadko, **J. Resing**, T. Garfield, S.J. Giovannoni. 2004. Time-Critical Studies: Rapid response to Transient Dynamic Mid-Ocean Ridge Events, *Eos Trans. AGU*, Fall 2004 Meeting.
- Baker, E T, S.L. Walker, **J.A. Resing**, G.J. Massoth, F. Martinez, B. Taylor, C.E. de Ronde. 2004. Hydrothermal Plume Distributions Along the Valu Fa Ridge and East Lau Spreading Center, Lau Backarc Basin, *Eos Trans. AGU*, Fall 2004 Meeting.
- Lupton, J, M. Lilley, D. Butterfield, L. Evans, R. Embley, R, E. Olson, E, G. Proskurowski, **J. Resing**, K. Roe, R. Greene, G. Lebon. 2004. Liquid Carbon Dioxide Venting at the Champagne Hydrothermal Site, NW Eifuku Volcano, Mariana Arc, *Eos Trans. AGU*, Fall 2004 Meeting.
- Martinez, F, B. Taylor, **J. A. Resing**, E. Baker, S.L. Walker, G.J. Massoth. 2004. Geophysical and Hydrothermal Survey of the Lau Basin Integrated Studies Site, *Eos Trans. AGU*, Fall 2004 Meeting.
- Massoth, G J, E.T. Baker, J.E. Lupton, C.E. de Ronde, S.L. Walker, J. Ishibashi, T.J. Worthington, R.J. Arculus, **J.A. Resing**, R.R. Greene, G.T. Lebon, K. Nakamura, P. Stoffers. 2004. A Systematic Reconnaissance of Submarine Hydrothermal Venting Along the South Tonga (Tofua) Intra-oceanic arc, *Eos Trans. AGU*, Fall 2004 Meeting
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## Field Experience

- 2006 Fe in the Equatorial Undercurrent, 28 days, RV Kila MOana
- 2006 Submarine Ring of Fire, 26 days, RV Melville
- 2005 Galapagos Spreading Center, 39 Days, T.G. Thompson.
- 2005 Endeavour Response, 6 Days RV T.G. Thompson.
- 2004 Lau Basin Hydrothermal survey. 35 Days RV Kila Moana
- 2003 The Submarine Ring of Fire: Mariana Arc. 25 days RV T.G. Thompson.
- 2002 Exploration of Explorer Ridge. Two legs Totaling 25 days. RV T.G. Thompson.
- 2001 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days RV Wecoma.
- 2001 Astoria Canyon, Ocean Exploration-Lewis and Clarke Legacy, 10 days R.H. Brown.
- 2001 Gorda Ridge Event detection response cruise, RV New Horizon, 7 days.
- 2000 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days R.H. Brown.
- 1999 Juan de Fuca and Axial volcano hydrothermal emissions. 17 days RV Wecoma.
- 1998 Loihi, seismic event follow up cruise. 7 days: RV Kaimikai O'Kanaloa.
- 1998 Axial Volcano eruption, response follow up. 18 days NOAA Ship R.H. Brown.
- 1998 28-32S EPR hydrothermal survey of earth's fastest spreading center. 41 days RV Melville.
- 1998 Axial Volcano eruption, Rapid Response Cruise. 7 days RV Wecoma.
- 1997 Loihi seismic event follow up cruise. 7 days: RV Kaimikai O'Kanaloa.
- 1996 Loihi seismic event rapid response cruise. 7 days: RV Kaimikai O'Kanaloa.
- 1990-1995 The interaction of molten lava with seawater, 20 1-3 day field trips on the Island of Hawaii.
- 1993 Vents cruise, leg III. 12 days: NOAA ship Discoverer.
- 1992 Loihi, hydrothermal plume survey, 7 days: RV Thomas G. Thompson.
- 1992 Microbial dynamics of the Antarctic spring bloom. 25 days: RV Polar Duke.
- . 1991 Hydrothermal plume survey, East Pacific Rise from  $9^{\circ}$ - $11^{\circ}$  N. 30 days: RV New Horizon.
- 1989 Hawaii ocean time series. 5 days: RV Kaimalino.
- 1989 Carbonate chemistry of Penguin Bank Hawaii. 5 days: RV Thomas Cromwell.
- 1988 Chemistry of hydrothermal venting, Juan de Fuca ridge. 30 days: RV Atlantis II/Alvin.
- 1986 Coral collection and recruitment studies, Great Barrier Reef, Australia: 20 field days.

## Outreach

- 2004** Sponsored a field internship for an undergraduate student. (Jamie Smith, Depaul University)
- 2003** Sponsored a field internship for an undergraduate student. (Kelly Kaiser, Depaul University)
- 2002** Sponsored an Internship for a student from Marine Advanced Technology Education (MATE) Program  
Sponsored a field internship for two undergraduate students. (Angela Opiola, Depaul University and Andrea Toth, DePaul University).
- 2001** Sponsored a field internship for an undergraduate student.(Angela Opiola, Depaul University)
- 2000** Sponsored Teacher for Teacher at Sea Program (together with E. Baker)  
Sponsored a Midshipman for internship (together with E. Baker)
- 1999** Sponsored Teacher for Teacher at Sea Program (together with E. Baker)  
Sponsored two Midshipman for internship (together with E. Baker)
- 1998** Sponsored Teacher for Teacher at Sea Program (together with E. Baker)  
Sponsored two Midshipman for internship (together with E. Baker)
- Jamsheed Gharib.** Defined masters project (Distribution of Methane rich Venting along the SEPR) and committee member.
- Rebecca Reitmeyer.** Advised masters project: Aluminum distributions in the Eurasian Basin of the Arctic Ocean During this project Becky used the method I developed for aluminum analysis in seawater.
- Jin Chun Yuan.** Defined masters project (Open Ocean Fe determinations by flow injection analysis)