

Susan Q. Lang

ADDRESS

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EDUCATION

Ph.D. December, 2006. Chemical Oceanography, University of Washington
Advisors: Dr. Marvin Lilley and Dr. John Hedges (deceased)
M.S. May, 2003. Chemical Oceanography, University of Washington
B.S. June, 1999. Chemistry, Massachusetts Institute of Technology

PUBLICATIONS

Lang S.Q., Lilley M.D., and Hedges J.I. (2007) "Use of a High Temperature Combustion Instrument for the Stable Carbon Isotopic Analysis of Dissolved Organic Carbon" *Mar. Chem.* 10:318 – 326.

Lang S.Q., Butterfield D.A., Lilley M.D., Johnson H.P., and Hedges J.I. (2006) "Dissolved Organic Carbon in Ridge-Flank and Ridge-Axis Environments" *Geochim. et Cosmochim. Acta* 70(15): 3830-3842

Peterson M.L., **Lang S.Q.**, Aufdenkampe A.K., Hedges J.I. "Dissolved organic carbon measurements using a modified high-temperature combustion analyzer" *Mar. Chem.* Volume 81 (1-2): 89-104 (2003)

Johnson, H. P., Baross J., Bjorkland T., Brazelton W., Huber J., Pruis M., **Lang S. Q.**, McCrosky F., Mehta M., Butterfield D., Bowen A., Howland J., Martin W., Roe K., Channing C., Kalk P., Kammerer C., Light R., Miller V., McCarthy M., Moore B., Sharma M., and Voit J. (2003) "Probing for life in the ocean crust with the LEXEN program" *Eos, Trans. AGU.*, 84:109-112.

Lang S. Q., Butterfield D. A. and Lilley M. D. (in prep) "Abiotic formation of organic acids at the Lost City Hydrothermal Field: the basis for an ecosystem uncoupled from photosynthesis?"

CONFERENCE ABSTRACTS AND PRESENTATIONS

Lang, S.Q., Butterfield, D. A., Lilley, M.D. "Organic Geochemistry of Lost City Fluids" InterRidge Theoretical Institute. Flash Presentation (2007)

Lang S.Q., Hutnak M., Johnson H. P., Butterfield D.A., Lilley M.D. "Evidence for a 'third fluid' at Baby Bare Seamount: Implications for Chemical Fluxes" Poster. RIDGE Theoretical Institute (2006)

Lang, S.Q. , Hedges, J.I., Butterfield, D., Lilley, M.D. "Production of Isotopically Heavy Dissolved Organic Carbon From the Lost City Vent Field." Presentation. AGU Fall Meeting (2005)

Lang S.Q., Butterfield D.A., Lilley M.D., Johnson H.P., and Hedges J.I. "What can dissolved organic carbon tell us about subsurface reactions in hydrothermal systems?" Poster. Cyprus Field School (2005)

Lang, S.Q., Hedges, J.I., Butterfield, D., Lilley, M. “Stable Carbon Isotopes of the Lost City Hydrothermal Vent Field.” Poster. Gordon Research Conference on Organic Geochemistry, Plymouth, New Hampshire (2004)

Lang, S.Q., Hedges, J.I., Butterfield, D. “Dissolved Organic Carbon in Endeavour Segment of Juan de Fuca Ridge.” Presentation. ACS Spring Meeting (2001)

RESEARCH EXPERIENCE

2007 – present. Post-Graduate Researcher, Scripps Institution of Oceanography. (Dr. Lihini Aluwihare, Advisor)

1999 – 2006 Graduate Student Researcher, University of Washington (Dr. Marvin Lilley and Dr. John Hedges, Advisors)

Summer, 1998. Undergraduate Researcher, Woods Hole Oceanographic Institution (Dr. Daniel Repeta, Advisor)

1997 – 1998. Undergraduate Researcher, MIT (Dr. Robert Field, Advisor)

TEACHING EXPERIENCE

2002 - 2003. Departmental Lead Teaching Assistant, Oceanography, University of Washington

2001. Teaching Assistant, Marine Chemistry, University of Washington (S. Emerson)

2000. Teaching Assistant, Marine Chemistry, University of Washington (J. Hedges)

Spring, 1999. Laboratory Supervisor, MIT

FELLOWSHIPS AND HONORS

2007 – 2010. CALFED Post-doctoral Fellowship

2000 – 2003. National Defense Science and Engineering Graduate Student Fellowship

1999 – 2002. Achievement Rewards for College Scientists Graduate Student Fellowship

2002. Oceanography Dept. Excellence in Teaching Award, Honorable Mention

2000. National Science Foundation Graduate Student Fellowship, Honorable Mention

1999. Undergraduate Research Award, MIT Chemistry Department

1999. Sigma Xi

LEADERSHIP

2003. Organizer, Oceanography Weekly Departmental Seminar

2002. Graduate Student Rep., UW Task Force on Grad. Stud. Roles, Responsibilities, Compensation

2002. Graduate Student Rep., Academic Affairs Comm.

PROFESSIONAL MEMBERSHIPS

American Geophysical Union

American Society of Limnology and Oceanography

CRUISES

2005. Visions. Participant. Juan de Fuca ridge via R/V *Thompson* and ROV *JASON*

2005. Virtual Lost City. Participant. Lost City hydrothermal field via R/V *Ronald H. Brown* and the Institute for Exploration's ROV *Argus* and *Hercules*

2003. Lost City. Participant. Lost City hydrothermal field via R/V *Atlantis* and DSV *ALVIN*

2003. Life in Extreme Environments return cruise. Participant. Main Endeavour Field, Axial Seamount, and the Juan de Fuca flanks via R/V *Thompson* and ROV *JASON*

2002. Life in Extreme Environments. Participant. Main Endeavour Field, Axial Seamount, and the Juan de Fuca flanks via R/V *Thompson* and ROV *JASON*

2001. New Millennium Observatory. Participant. Axial Seamount via R/V *Ronald H. Brown* and ROV *ROPOS*

2000. Tidal Perturbations return cruise. Participant. Main Endeavour Field Main Endeavour Field via R/V *Atlantis* and DSV *ALVIN* and ROV *JASON*

2000. Tidal Perturbations. Participant. Main Endeavour Field via R/V *Atlantis* and DSV *ALVIN* and ROV *JASON*