

Sample CV #1

Claudio V Di Leo

Business Address Home Address

Massachusetts Institute of Technology
77 Massachusetts Av. Rm. E39-305
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1234 Main Street Apt. 007
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phd@mit.edu

Education

Massachusetts Institute of Technology Cambridge, MA
Ph.D in Mechanical Engineering. GPA 4.9/5.0 *Expected, June 2015*

- Provisional thesis title: Chemo-mechanics of energy storage materials: focus on Li-ion battery electrodes. Advisor: Lallit Anand.
- Minor in micro and nano scale material science.

Massachusetts Institute of Technology Cambridge, MA
M.S. in Mechanical Engineering. GPA 4.9/5.0 *June 2012*

- Thesis title: A coupled theory for diffusion of hydrogen and large elastic-plastic deformations of metals. Advisor: Lallit Anand.

Massachusetts Institute of Technology Cambridge, MA
B.S. in Mechanical Engineering. GPA 4.8/5.0 *February 2010*

- Participated in four semesters of undergraduate research under the guidance of Prof. Lallit Anand resulting in an undergraduate thesis and a joint conference publication in the ASME IMECE 2010 proceedings.
- Thesis title: Nitinol-reinforced shape-memory polymers.

Research Experience

MIT Mechanical Engineering Cambridge, MA
Advisor: Lallit Anand

My research focuses on modeling the coupled multi-physics (deformation-diffusion) behavior of energy storage materials. My work combines rigorous thermodynamically-consistent constitutive frameworks with robust numerical implementations.

- Currently developing a coupled deformation-diffusion model for Silicon anodes. Thus far, the model has been calibrated to substrate curvature experiments and is capable of reproducing both the mechanical response as well as the electrochemical response of the experiments. Using this model I am studying the effect of deformation and plasticity on the electrochemical performance of various nano-dimensioned Silicon anodes which have been experimentally realized.
- Developed and numerically implemented a continuum level model which couples Cahn-Hilliard type diffusion with large elastic deformations to model the phase-separating behavior of Lithium when it intercalates in certain cathodes. We have shown through simulations of representative spheroidal particles that the lithiation morphology, as well the rate at which the battery can be charged, is highly dependent on the stress built-up in the particle.
- Developed a theory and numerical implementation for modeling hydrogen diffusion in metals undergoing large elastic-plastic deformations. The model was used to study hydrogen diffusion at a blunt-crack, and determine the appropriate boundary conditions for modeling the physical problem of a metal host exposed to gaseous hydrogen.

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Claudio V Di Leo

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Research Interest

My broad research interests are:

- Coupled multi-physics problems
- Computational mechanics
- Energy storage materials and the role of mechanics in their performance
- Modeling of electrochemical phenomena (i.e. Li-intercalation, chemical reactions, etc.) at the continuum scale

Awards

Graduate Student Paper Award for the presentation "Coupled diffusion-deformation of phase-separating materials" bestowed by ASME and SES at the joint SES annual technical meeting and ASME-AMD annual summer meeting, July 2013.

Den Hartog Travel award in Mechanics awarded for travel to present at the ASME IMECE 2013 conference.

2011 Wunsch Foundation Silent Hoist and Crane Award — Outstanding Teaching Assistant for the class Mechanics and Materials II.

2008 AMP Inc. Award for outstanding performance in Mechanics and Materials II.

Teaching Experience

Teaching & Learning Laboratory at MIT *Spring 2014*
Teaching Certificate Program

- Completed a teaching certificate program based on seven workshops aimed at development of teaching skills. The program included exposure to relevant research in teaching and learning, and structuring of future teaching.
- Presented two short teaching sessions which were videotaped, and from which I received feedback on my teaching performance as well as gave feedback to other participants.

Undergraduate Mechanics and Materials

Teaching assistant *Spring 2011*

- Teaching assistant for the undergraduate Mechanics and Materials class. Topics included strain, stress, elasticity, fracture, fatigue, plasticity, and viscoelasticity.
- Prepared homework and exam problems/solutions, gave review lectures, and facilitated student laboratory experiments.
- Developed a student project based on material selection in bicycle design. The project combined direct experimentation on bicycle forks tested in an Instron machine, finite-element modeling performed in Solidworks, and analytical beam bending solutions to explore material selection and design.
- Overall rating 6.4/7.0.

Graduate Mechanics and Materials

Teaching assistant *Spring 2010 & Spring 2013*

- Teaching assistant for the graduate Mechanics Materials class. Topics included kinematics, stress, and balance principles. Linear elasticity and thermal elasticity. Viscoelasticity. Small-strain elastic-plastic deformation. Introduction to large deformations and nonlinear hyperelastic material behavior.
- Taught a weekly one hour recitation which reviewed lecture material and solved example problems. Prepared homework and exam problems/solutions.
- Overall rating 6.1/7.0.

Advising Experience	MIT Mechanical Engineering <i>September 2014 to Present</i> <ul style="list-style-type: none"> Currently advising an undergraduate student as part of a research program for undergraduates at MIT and as part of her thesis work. The research focuses on the experimental characterization of the deformation-diffusion behavior of swellable elastomers.
Industry Experience	Apple Inc. Cupertino, CA <i>June to August 2009</i> <ul style="list-style-type: none"> Interned at Apple's iPhone/iPod accessories product design team. Work involved mechanical design, CAD modeling, prototyping, reliability testing, and competitor benchmarking. Two issued patents: "Accessory Controller for Electronic Devices" (US 8.314.354 B2). "Compact media player" (US 8.724.339 B2). Qualcomm MEMS Technologies San Jose, CA Interning Engineer <i>June to August 2008</i> <ul style="list-style-type: none"> Characterized the mechanical behavior of Qualcomm's MEMS display technology. Performed extensive MATLAB programming to develop a graphical user interface for retrieving the optical response of a finite-element simulated pixel.
Publications (Accepted)	<p>Chester, S.A., Di Leo, C.V., and Anand, L. (2014). A finite element implementation of a coupled diffusion-deformation theory for elastomeric gels. <i>International Journal of Solids and Structures</i>, 52, 1-18.</p> <p>Di Leo, C.V., Rejovitzky, E., and Anand, L. (2014). A Cahn-Hilliard-type phase-field theory for species diffusion coupled with large elastic deformations: application to phase-separating Li-ion electrode materials. <i>Journal of the Mechanics and Physics of Solids</i>, 70, 129.</p> <p>Di Leo, C.V., Luk-Cyr, J., Liu, H., Loeffel, K., Al-Athel, K., and Anand, L. (2014). A new methodology for characterizing traction-separation relations for interfacial delamination of thermal barrier coatings. <i>Acta Materialia</i>, 71, 306-318.</p> <p>Di Leo, C.V., and Anand, L. (2013). Hydrogen in metals: A coupled theory for species diffusion and large elastic-plastic deformations. <i>International Journal of Plasticity</i>, 43, 42-69.</p> <p>Bhattacharyya, R., Di Leo, C.V., Floerkemeier, C., Sarma, S., and Anand, L. (2010, November). RFID tag antenna based temperature sensing using shape memory polymer actuation. In <i>Sensors, 2010 IEEE</i>, 2363-2368.</p> <p>Chester, S.A., Srivastava, V., Di Leo, C.V., and Anand, L. (2010, January). A large-deformation theory for thermally-actuated shape-memory polymers and its application. In <i>ASME 2010 IMECE</i>, 677-683.</p>
(Submitted)	<p>Di Leo, C.V., Rejovitzky, E., and Anand, L. Diffusion-deformation theory for amorphous silicon anodes: the role of plastic deformation on electrochemical performance. <i>Electrochimica Acta</i>, Submitted.</p> <p>Rejovitzky, E., Di Leo, C.V., and Anand, L. (2014). A theory and a simulation capability for the growth of a solid electrolyte interphase layer at an anode particle in a Li-ion battery. <i>Journal of the Mechanics and Physics of Solids</i>, Submitted.</p>
(In Preparation)	<p>Di Leo, C.V., and Anand, L. Split methods for solving the Cahn-Hilliard equation using finite element analysis. Application to phase-separation in elastic media.</p>

Invited Talks	<p>Di Leo, C.V. (November, 2014). Computational modeling of Silicon anodes: the role of mechanics on the electrochemical performance. <i>Mechanical and Industrial Engineering Department, New Jersey Institute of Technology</i>.</p>				
Conferences (Lead Author)	<p>Di Leo, C.V., Rejovitzky, E., and Anand, L. (June, 2014). Coupled diffusion-deformations in phase-separating materials. <i>US National Congress of Theoretical and Applied Mechanics</i>, East Lansing, MI.</p> <p>Di Leo, C.V., Rejovitzky, E., and Anand, L. (November, 2013). A Cahn-Hilliard-type phase-field theory for species diffusion coupled with large elastic deformations. <i>ASME International Mechanical Engineering Congress and Exposition</i>, San Diego, CA.</p> <p>Di Leo, C.V., Rejovitzky, E., and Anand, L. (July, 2013). Coupled diffusion-deformation of phase-separating materials. <i>SES Annual Technical Meeting and ASME-AMD Annual Summer Meeting</i>, Providence, RI</p> <p>Di Leo, C.V., and Anand, L. (November, 2012). Hydrogen in metals: A coupled theory for diffusion and large elastic-plastic deformations. <i>ASME International Mechanical Engineering Congress and Exposition</i>, Houston, TX.</p>				
(Contributing Author)	<p>Chester, S.A., Di Leo, C.V., and Anand, L. (November, 2011). A thermo-chemo-mechanically coupled theory for thermally-responsive elastomeric gels. <i>ASME International Mechanical Engineering Congress and Exposition</i>, Denver, CO.</p> <p>Chester, S.A., Srivastava, V., Di Leo, C.V., and Anand, L. (January, 2010). A large-deformation theory for thermally-actuated shape-memory polymers and its application. <i>ASME International Mechanical Engineering Congress and Exposition</i>, Vancouver, BC Canada.</p>				
Patents	<p>Prest, C.D., and Di Leo, C.V. (2014). "Compact media player." U.S. Patent No. 8,724,339.</p> <p>Prest, C.D., Di Leo, C.V., and Mino, J. (2012). "Accessory controller for electronic devices." U.S. Patent No. 8,314,354.</p>				
Skills	<p>Language: Fluent in Spanish, Portuguese, German and English</p> <p>Computer: Fortran, Abaqus (including UMAT and UEL), MATLAB, Solidworks, NX, Mastercam Lathe and Mill.</p>				
References	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p>Professor Grand Publisher Room E39-305 Department of Mechanical Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p> </td> <td style="vertical-align: top;"> <p>Professor Grant Winner Room E39-305 Department of Chemical Engineering and Applied Mathematics Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Professor Ima Tenured Room E39-305 Department of Mechanical Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p> </td> <td style="vertical-align: top;"> <p>Professor Amazing Course Room E39-305 Department of Mechanical Engineering and Material Science and Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p> </td> </tr> </table>	<p>Professor Grand Publisher Room E39-305 Department of Mechanical Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p>	<p>Professor Grant Winner Room E39-305 Department of Chemical Engineering and Applied Mathematics Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p>	<p>Professor Ima Tenured Room E39-305 Department of Mechanical Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p>	<p>Professor Amazing Course Room E39-305 Department of Mechanical Engineering and Material Science and Engineering Massachusetts Institute of Technology 77 Massachusetts Ave. Cambridge, MA 02139 USA 617-555-5555 phd@mit.edu</p>
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Sample CV #2

EAPS POSTDOC

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
EARTH, ATMOSPHERIC AND PLANETARY SCIENCES DEPARTMENT
77 Massachusetts Ave. Cambridge MA 02139
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EDUCATION

MIT & Woods Hole Oceanographic Institution, Ph.D. Geochemistry 2010
University of Leeds, U.K., M.Sc. Geochemistry 2004
Bangor University, U.K., B.Sc. Geological Oceanography 2002

ACADEMIC EXPERIENCE

Dept. of Earth, Atmospheric and Planetary Sciences (EAPS) Postdoctoral Associate Since 9/2013

- Experimental investigation of the rates and mechanisms of secondary oil-to-gas cracking to develop and validate ab initio quantum kinetic models for this process under geologic conditions
- Experimental investigations of oil-to-gas decomposition, working in close collaboration with theoretical chemistry modelers in the MIT Chemical Engineering Dept. • Long Term Guest Investigator (WHOI)
- Advisors: S. Fish (EAPS) and W.H. Blue (ChemE)

Guest Investigator (Long Term), Woods Hole Oceanographic Institution, MA Since 9/2013

MARUM Center for Marine Environmental Sciences & Department of Geosciences 2010-2013
Univ. of Bremen, Germany Postdoctoral Fellow

- Lead investigator in sampling and analyses of seafloor hydrothermal fluids in the Mid-Atlantic Ridge and Manus Basin, and in novel organic geochemical investigations of associated hydrothermal sulfide structures. Advisors: ABC and XYZ
- Led projects and field teams sampling and analyzing seafloor geothermal fluids and solids on two international sea-going expeditions, using state of the art submersible and fluid sampling technology
- Led a multidisciplinary team investigating biomarkers in hydrothermal structures, including study publication

MIT/WHOI Joint Program in Chemical Oceanography 2005-2010

RESEARCH ASSISTANT, Dept. of Marine Chemistry and Geochemistry

- Developed methods for and analyzed dissolved organic and inorganic gases, including trace species
- Experimentally investigated abundances and isotope compositions of trace organics in geothermal fluids
- Collaborated with interdisciplinary scientist to conduct thermodynamic modeling of dissolved gases in experimental and field samples
- Teaching assistant for MIT graduate course Aquatic Chemistry
- Thesis: Laboratory and Field-based Investigations of Subsurface Geochemical Processes in Seafloor Hydrothermal Systems
- Combined thermodynamics, trace organic analyses, and high temperature experiments to constrain organic geochemical processes in submarine hot springs
- Thesis Advisor: Canu Seaweed. Cumulative GPA: 5.0/5.0

Guest Student, Woods Hole Oceanographic Institution, MA 08/2003

TEACHING EXPERIENCE

- Jacobs (International) University Bremen, 2012. Lecturer for senior B.Sc. course 'Geochemistry of Aqueous Systems' with Prof. A. Developed and taught lectures, problem sets, exam questions.
- University of Bremen, 2011. Guest lecturer for 'Petrology of the Ocean Crust' M.Sc. course with Prof. B. Developed and taught lectures, exam questions. Class size 75 and held office hours every Monday.

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GRADUATE & UNDERGRADUATE RESEARCH MENTORING

- University of Bremen, 2012. Developed, supervised M.Sc. thesis of N. G. (coauthor on Environ. Microbiol Manuscript). A conference abstract is published, additional manuscript is in prep.
- University of Bremen, 2011. Mentored Bridgewater State College undergraduate and WHOI guest student (currently graduate student at the Dept. of Earth Sciences, U.Minn.) in hydrothermal fluid analysis during his participation in expedition SO-216 (Manus Basin) as my research assistant

PEER-REVIEWED PUBLICATIONS

EAPS Postdoc., M. Y†, P. P†, N. G§, J.P. A.M., R. A. W. B. K., Microbial lipids reveal diverse carbon flow patterns on hydrothermal sulfide structures. In press, Environmental Microbiology. († equal contribution, § mentored M.Sc. student)

EAPS Postdoc, J.M. Mc. and C Seaweed (2014) The origin of methanethiol in mid-ocean ridge hydrothermal fluids. Proc. Natl. Acad. Sci. USA. 111(15), pp5474–5479.)

LG, S.Q., Blue, G.L., D.S., M.D., and EAPS Postdoc (2012) Online Letter: H₂/CH₄ ratios cannot reliably distinguish abiotic vs. biotic methane in natural hydrothermal systems. Proc. Natl. Acad. Sci. USA 109(47), E3210.

N.J., EAPS Postdoc., M.E., DK., Seaweed, J.S., W.E. Jr. (2012) Subseafloor phase equilibria in high-temperature hydrothermal fluids of the Lucky Strike Seamount (Mid-Atlantic Ridge, 37°17'N). Geochim. Cosmochim. Acta 90, pp303–322.

EAPS Postdoc, Seaweed, J.S. (2012) Hydrogen isotope exchange between n-alkanes and water under hydrothermal conditions. Geochim. Cosmochim. Acta 77, pp582–599.

EAPS Postdoc, Seaweed, J. S., P.B., W. P. R., W. C., S. P., E., and R., M. (2011) Geochemistry of hydrothermal fluids from the PACMANUS, Northeast Pual and Vienna Woods hydrothermal fields, Manus Basin, Papua New Guinea. Geochim. Cosmochim. Acta 75, pp1088–1123.

M. J., Seaweed, J. S., C. G., M. K., P. J., G., T. M., EAPS Postdoc, C. F., L. H. T. (2011) Chemistry of hot springs along the Eastern Lau Spreading Center. Geochim. Cosmochim. Acta 75, pp1013–1038.

R. J., EAPS Postdoc, K.N., P. B., S. H., and J. G. (2011) Low marine sulfate concentrations and the isolation of the European epicontinental sea during the Early Jurassic. Geol. 39, pp7–10.

P. R., Seaweed J. S., O. J., EAPS Postdoc, and, M. K. (2010) Rare earth element abundances in hydrothermal fluids from the Manus Basin, Papua New Guinea: Indicators of sub-seafloor hydrothermal processes in back-arc basins. Geochim. Cosmochim. Acta 74, pp5494–5513.

Widall, P. B., Hall, A., New, J. G., EAPS Postdoc, Matt, E., and Crow, S. (2006) An eastern Tethyan (Tibetan) record of the Early Jurassic (Toarcian) mass extinction event. Geobiology 4, pp179–190.

Manuscripts in review:

‡ Seaweed, J.S., EAPS Postdoc, W. P., P.C., W.C., S.T., M. E., Submarine venting of magmatic volatiles in the Eastern Manus Basin, Papua New Guinea. In revision, Geochim. Cosmochim. Acta.

C. M., R.M., EAPS Postdoc, A. T. Arsenic in fluids and biota of the Menez Gwen hydrothermal system. In review, Deep-Sea Research Pt.I.

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SELECTED CONFERENCE PRESENTATIONS (PUBLISHED ABSTRACTS, ‡ attached)

‡ G. N.§, M.Y., **EAPS Postdoc**, P. W., K.U. (2013) Microbial lipid remnants in hydrothermal structure interiors: Evidence for transport from seafloor environments. *Organic Geochemistry: Trends for the 21st Century*, 1, B106 (abstract). 26th International Meeting on Organic Geochemistry (IMOG) 2013, Tenerife. (§ mentored M.Sc. student, manuscript in prep.)

‡ **EAPS Postdoc**, X. M., M. J., Seaweed, K.U., and W.B. (2011) Phase separation, degassing and anomalous methane at the Menez Gwen hydrothermal field. *Mineralogical Magazine*, 75(3), p1702 (abstract). 21st Annual V.M. Goldschmidt Conference, Prague.

Seaweed, J. S., Bach, W., **EAPS Postdoc** (2010) Fluid-mineral equilibria in seafloor reaction zones beneath Eastern Manus vent fields. *Geochim. Cosmochim. Acta*, 74(12, Suppl. 1), pp A930 (abstract). 20th Annual V.M. Goldschmidt Conference, Knoxville, TN.

S. W.C., One, S., Seaweed, J., **EAPS Postdoc**, Titey, M., Braddock, P. (2010) Stable isotope studies of Manus basin hydrothermal vent fluids and deposits. *Geochim. Cosmochim. Acta.*, 74(12, Suppl. 1), pp A940 (abstract). 20th Annual V.M. Goldschmidt Conference, Knoxville, TN.

EAPS Postdoc and J. Seaweed (2009) INVITED: Methanethiol: A geochemical link between carbon and sulfur in hydrothermal systems? *Geochimica et Cosmochimica Acta*, 73(13, Suppl. 1), pp A1079 (abstract). 19th Annual V.M. Goldschmidt Conference, Davos, Switzerland.

Seaweed, J. and **EAPS Postdoc** (2009) INVITED: Chemical equilibria involving aqueous carbon compounds in submarine hydrothermal systems. *Geochimica et Cosmochimica Acta*, 73(13, Suppl. 1), pp A1190 (abstract). 19th Annual V.M. Goldschmidt Conference, Davos, Switzerland.

New, R.J., Kathy, N., **EAPS Postdoc**, Wind, P.B., Botte, S. (2008) The marine sulfate-oxygen isotope record of the early Toarcian anoxic event. *Geochimica et Cosmochimica Acta*, 72(12, Suppl. 1), pp A679 (abstract). 18th Annual V.M. Goldschmidt Conference, Vancouver, Canada.

EAPS Postdoc, J. Seaweed, S. Sylvester (2007) Rapid hydrogen isotopic exchange between aqueous hydrocarbons and water under hydrothermal conditions. *Geochimica et Cosmochimica Acta*, 71(15, Suppl. 1), pp A825 (abstract). 17th Annual V.M. Goldschmidt Conference, Cologne, Germany.

AWARDS & ACHIEVEMENTS

- 2012 'Top 25' most downloaded *Geochimica et Cosmochimica Acta* articles in 2011, Reeves et al.(2011) and Mottl et al.(2011). Link
- 2011 Interridge Postdoctoral Fellowship Award (research grant)
- 2010 WHOI Ruth and Paul Fye Award for Excellence in Oceanographic Research, Graduate Student Best Paper Award, awarded for: Reeves et al. (2011) *Geochim. Cosmochim. Acta*, 75, pp1088–1123.
- 2010 The Sherwood Chang/Eliot Kalmbach Award for Student Poster Presentation, 2010 Gordon Research Conference on the Origin of Life (Galveston, TX).
- 2007 WHOI Deep Ocean Exploration Institute Fellowship
- 2005 WHOI Graduate Research Assistantship
- 2003 University Of Leeds Full Fees Bursary for UK/EU Mastership postgraduates
- 2001 Darbyshire Prize Award, School of Ocean Sciences, University of Wales, Bangor
- 1999 Aughinish Alumina Ltd. (Ireland) Educational Award for University undergraduate education

FIELD EXPEDITIONS

- 2013 St Ocean Institute R/V Falk/HROV Nereus Return to Mid-Cayman Rise hydrothermal systems. Guest investigator. Hydrothermal plume sampling and analysis.
- 2012 U.S. R/V Atlantis/ROV Jason hydrothermal exploration and sampling of the Mid-Cayman Rise. Guest investigator. Hydrothermal fluid analysis.
- 2011 Germ F/S Son/ROV Quest 4000m return to Manus Basin hydrothermal systems. Lead investigator in Isobaric Gas-Tight (IGT) hydrothermal fluid sampling and analysis.
- 2010 Germ F/S Met/ROV Quest 4000m, Menez Gwen hydrothermal system, Mid-Atlantic Ridge. Lead investigator in IGT hydrothermal fluid sampling and analysis.
- 2008 U.S. R/V Atlantis/DSV Alvin Guaymas Basin & East Pacific Rise hydrothermal systems
- 2008 U.S. R/V Roger Revelle/ROV Jason II Mid-Atlantic Ridge hydrothermal systems.
- 2006 U.S. R/V Melville/ROV Jason/ABE Manus Basin hydrothermal exploration, sampling.
- 2005 U.S. R/V Melville/ROV Jason Lau Basin hydrothermal exploration, sampling.

REVIEWER ACTIVITIES

National Science Foundation (OCE), *Geochimica et Cosmochimica Acta*, Earth and Planetary Science Letters, Applied Geochemistry, *Geochemical Transactions*, *Geochemical Journal*, *IEEE Journal of Oceanic Engineering*

SYNERGISTIC ACTIVITIES

- 2013 Fall AGU Session Chair 'Carbon transformations in hydrothermal systems' (oral & poster), Outstanding Student Paper Award (OSPA) judge
- 2006–2009 WHOI Institution Safety Committee, graduate student representative
- 2007–2008 MIT/WHOI Joint Program student life representative
- 2000–2002 Bangor University School of Ocean Sciences student representative

ACADEMIC REFERENCES

Dr. Jeff S. Seaweed, Senior Scientist (Ph.D. advisor)
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Prof. Dr. Kite Flies (Postdoctoral advisor)
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TEACHING REFERENCE

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