

Sample Resumes

PostDoc II Resume

EAPS POSTDOC

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
EARTH, ATMOSPHERIC AND PLANETARY SCIENCES DEPARTMENT
77 Massachusetts Ave. Cambridge MA 02139
617-234-5678 (office) EAPSPHD@mit.edu

EDUCATION

MIT & Woods Hole Oceanographic Institution, Ph.D. Geochemistry	20XX
University of Leeds, U.K., M.Sc. Geochemistry	20XX
Bangor University, U.K., B.Sc. Geological Oceanography	20XX

ACADEMIC EXPERIENCE

Dept. of Earth, Atmospheric and Planetary Sciences (EAPS) Postdoctoral Associate Since 9/20XX

- 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 9/20XX

MARUM Center for Marine Environmental Sciences & Department of Geosciences 20XX-20XX
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 20XX-20XX
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 08/20XX

TEACHING EXPERIENCE

- Jacobs (International) University Bremen, 20XX. Lecturer for senior B.Sc. course 'Geochemistry of Aqueous Systems' with Prof. A. Developed and taught lectures, problem sets, exam questions.
- University of Bremen, 20XX. 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.

GRADUATE & UNDERGRADUATE RESEARCH MENTORING

- University of Bremen, 20XX. 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, 20XX. 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 (20XX) 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** (20XX) 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. (20XX) 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, (20XX) 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. (20XX) 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. (20XX) 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. (20XX) 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. (20XX) 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

SELECTED CONFERENCE PRESENTATIONS (PUBLISHED ABSTRACTS, ‡ attached)

‡ G. N.§, M.Y., **EAPS Postdoc**, P. W., K.U. (20XX) 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. (20XX) 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** (20XX) 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. (20XX) 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 (20XX) 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. (20XX) 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 (20XX) 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

20XX	‘Top 25’ most downloaded <i>Geochimica et Cosmochimica Acta</i> articles in 2011, Reeves et al.(2011) and Mottl et al.(2011). Link
20XX	Interridge Postdoctoral Fellowship Award (research grant)
20XX	WHOI Ruth and Paul Fye Award for Excellence in Oceanographic Research, Graduate Student Best Paper Award, awarded for: Reeves et al. (2011) <i>Geochim. Cosmochim. Acta</i> , 75, pp1088–1123.
20XX	The Sherwood Chang/Eliot Kalmbach Award for Student Poster Presentation, 2010 Gordon Research Conference on the Origin of Life (Galveston, TX).
20XX	WHOI Deep Ocean Exploration Institute Fellowship 2005 WHOI Graduate Research Assistantship
20XX	University Of Leeds Full Fees Bursary for UK/EU Mastership postgraduates
20XX	Darbyshire Prize Award, School of Ocean Sciences, University of Wales, Bangor
19XX	Aughinish Alumina Ltd. (Ireland) Educational Award for University undergraduate education

FIELD EXPEDITIONS

- 20XX St Ocean Institute R/V Falk/HROV Nereus Return to Mid-Cayman Rise hydrothermal systems. Guest investigator. Hydrothermal plume sampling and analysis.
- 20XX U.S. R/V Atlantis/ROV Jason hydrothermal exploration and sampling of the Mid-Cayman Rise. Guest investigator. Hydrothermal fluid analysis.
- 20XX 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.
- 20XX Germ F/S Met/ROV Quest 4000m, Menez Gwen hydrothermal system, Mid-Atlantic Ridge. Lead investigator in IGT hydrothermal fluid sampling and analysis.
- 20XX U.S. R/V Atlantis/DSV Alvin Guaymas Basin & East Pacific Rise hydrothermal systems
- 20XX U.S. R/V Roger Revelle/ROV Jason II Mid-Atlantic Ridge hydrothermal systems.
- 20XX U.S. R/V Melville/ROV Jason/ABE Manus Basin hydrothermal exploration, sampling.
- 20XX 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

- 20XX Fall AGU Session Chair 'Carbon transformations in hydrothermal systems' (oral & poster), Outstanding Student Paper Award (OSPA) judge
- 20–20XX WHOI Institution Safety Committee, graduate student representative
- 20–20XX MIT/WHOI Joint Program student life representative
- 20–20XX Bangor University School of Ocean Sciences student representative

ACADEMIC REFERENCES

Dr. Jeff S. Seaweed, Senior Scientist (Ph.D. advisor) Department Chair, Department of Marine Chemistry & Geochemistry, WHOI, Woods Hole, MA 02543. Phone: +1 456 789 6666. Email: jseaweed@whoi.edu

Dr. Theme M. Collom, Research Associate (Thesis Committee member) Colorado University Center for Astrobiology & Laboratory for Atmospheric and Space Physics University of Colorado, Boulder, CO 80309. Phone: +1 333 777 7272. Email: collom@lasp.colorado.edu

Prof. Dr. J.S. Bach (Postdoctoral advisor) Department of Geosciences, University of Bremen, Bremen, Germany Phone: +49 424 24242424. Email: Jsbach@uni-bremen.de

Prof. Dr. Kite Flys (Postdoctoral advisor) Dean, Department of Geosciences, University of Bremen, Bremen, Germany Phone: +49 494 94949494. Email: kflys@uni-bremen.de

TEACHING REFERENCE

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