

Dr. Rose M. Jones - CV

Postdoctoral Scientist
Bigelow Laboratory of Ocean Sciences
60 Bigelow Drive, East Boothbay, ME 04578
207 315 2567 Extn. 404
rjones@bigelow.org
rosemjones.com
<https://orcid.org/0000-0002-7502-3800>

Professional Preparation

- Bangor University, UK, Environmental Science, Undergraduate Masters (2012)
- Bangor University, UK, Environmental Microbiology, Ph.D. (2015)

Appointments

- Postdoctoral Scientist: Bigelow Laboratory for Ocean Sciences, Dr. Beth Orcutt (since Sept. 2016)
- Research Officer: Coal Authority, UK (2015)
- Research Associate: Nelsons Ltd., UK (2012-2015)

Publications:

Jones, R. M., Goordial, J. M., Orcutt, B. N. (2018). Low energy deep subsurface environments as extraterrestrial analogs. *Frontiers in Microbiology*, 1605. [DOI: 10.3389/fmicb.2018.01605](https://doi.org/10.3389/fmicb.2018.01605)

Jones, R. M., Johnson, D. B. (2016). Iron kinetics and evolution of microbial populations in low pH, ferrous iron-oxidising bioreactors. *Environmental Science and Technology*, **50**, 8239-45. [DOI: 10.1021/acs.est.6b02141](https://doi.org/10.1021/acs.est.6b02141)

Jones, R. M., Johnson, D. B. (2015). *Acidithrix ferrooxidans* gen. nov., sp. nov.; a filamentous and obligately heterotrophic, acidophilic member of the *Actinobacteria* that catalyzes dissimilatory oxido-reduction of iron. *Research in Microbiology*, **166**, 111-120. [DOI: /10.1016/j.resmic.2015.01.003](https://doi.org/10.1016/j.resmic.2015.01.003)

Jones, R. M., Hedrich, S., Johnson, D. B. (2013). *Acidocella aromatica* sp. nov.: an acidophilic heterotrophic alphaproteobacterium with unusual phenotypic traits. *Extremophiles*, **17**, 841-850. [DOI: 10.1007/s00792-013-0566-0](https://doi.org/10.1007/s00792-013-0566-0)

Other significant products:

Jones, R. M., Goordial, J. M., Orcutt, B. N. (2018). Energy in the deep subsurface and as extraterrestrial habitability analogs. *Goldschmitt 2018, Boston, USA. (Oral Presentation)*

Jones, R. M. (2018). Mining in the deep sea. *Goldschmitt 2018, Boston, USA (Pop-up talk)*

Jones, R. M. (2018). Microbes can help solve mining pollution. [Massive Science](#). (In Press)

Jones, R. M., Goordial, J. M., Orcutt, B. N. (2018). 'Following the energy' in the search for intra- and extra- terrestrials. *NE Geobiology Symposium, Woods Hole Oceanographic Institution, USA. (Oral Presentation)*

Jones, R. M., Orcutt, B. (2017). Investigation of North Pond crustal fluids by poised potential methods. *AGU Fall Meeting 2017, New Orleans, USA. (Poster)*

Jones, R. M., Johnson, D. B. (2016). Evolution of bacterial populations in low pH, ferrous iron bioreactors in response to the addition of AMD from Mynydd Parys, North Wales. *Geomicrobiology Network Meeting, Bangor, UK. (Presentation)*

Jones, R. M., Johnson, D. B. (2014). Characteristics of novel acidophilic bacteria with potential for remediating metal-rich mine waters. *Proceedings of Biohydrometallurgy 2014, Falmouth, UK. (Presentation)*

Jones, R. M., Johnson, D. B. (2014). Identification and isolation of acidophilic bacteria from an acidic chalybeate spring (Trefriw Wells Spa, North Wales). *Molecular Microbial Ecology Group (MMEG) meeting 2014, Bangor, UK. (Presentation)*

Synergistic activities

Professional service:

- 2017: Workshop Attendee, "Deep Sea Mining Impacts on Microbial Ecosystem Services", Bigelow Laboratory for Ocean Sciences, Maine, USA
- 2017: Session co-convenor - "Unearthing the Metabolic Potential of Microorganisms in the Deep Subsurface Biosphere", AGU Fall Meeting, New Orleans, USA.
- 2017: Student award Liaison, AGU Fall Meeting, New Orleans, USA
- 2017: Student award Judge, AGU Fall Meeting, New Orleans, USA
- Journal peer review; *Frontiers in Environmental Science*

Outreach activities to inspire curiosity of STEM subjects:

- 2018: Dr. Jones' Marvels of the Deep science stall, Maine Association Promoting Steampunk annual fair
- 2018: Chewonki Maine Coast Semester, building tour guide
- 2017: Adopt-a-microbe blog contributor
- 2017: Bigelow Laboratory of Ocean Sciences open house day lead volunteer
- 2016: Career day Scientist speaker, Wiscasset High School

Mentoring activity of diverse students to support the next generation of researchers:

- 2018: 'Research in Undergraduate' program student
- 2017: Visiting student
- 2015: Undergraduate student, honors dissertation

Teaching activity, to inform and encourage interested students:

- 2018: Laboratory Instructor, Biogeochemistry, Colby Fall Semester
- 2017: Laboratory Instructor, General Oceanography, Colby Fall Semester
- 2015: Demonstrator, masters field and lab practical, Environmental Microbiology
- 2012-2015: Demonstrator, undergraduate Biomedical microbiology

References

Dr. Beth Orcutt,
Senior Research Scientist,
Bigelow Laboratory of
Ocean Science
60 Bigelow Drive,
East Boothbay,
ME 04578
borcutt@bigelow.org
+1 (207) 315 2567

Prof. D. Barrie Johnson,
Professor of
Environmental Microbiology
SBS Bangor University,
Brambell Building,
Deiniol Road,
Bangor, LL57 2UW
d.b.johnson@bangor.ac.uk
(+44) 1248 382358

Dr Nick Record,
Senior Research Scientist,
Bigelow Laboratory of
Ocean Science
60 Bigelow Drive,
East Boothbay,
ME 04578
nrecord@bigelow.org
+1 (207) 315-2567