CURRICULUM VITAE

Liza M. Roger
School of Molecular Sciences [College of Liberal Arts and Sciences]
School of Oceans Future [College of Global Futures]
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Education

- **PhD in Marine Biology and Geochemistry** University of Western Australia 2012-2017
- **B.Sc. Honours (2nd class A), Biological Oceanography** University of Western Australia 2008-2010
- **Associates Degree in Marine Biology & Coastal Management** Université du Littoral Côte d'Opale, Calais (France), 2005-2007

Appointments

[text in black indicates appointments in academia and/or research; text in grey indicates non-research and/or -academia related appointments]

- 12/2022 to date - **Assistant Professor,** Arizona State University, School of Molecular Sciences, School of Ocean Futures, Tempe, Arizona (USA)
- 03/2020 to 11/2022 – **Postdoctoral researcher**, Virginia Commonwealth University, Chemical and Life Science Engineering, Richmond, Virginia (USA)
- 10/2019 to 02/2020 – Ski instructor, Katschberg, Austria
- 06/2019 to 09/2019 – Scuba diving divemaster and instructor, Heraklion, Greece
- 11/2018 to 05/2019 – Scuba diving divemaster, Blue Planet Divers, Koh Lanta, Thailand
- 04/2018 to 11/2018 – Naturalist (Cetaceans and seabirds), Elding, Akureyri, Iceland
- 12/2017 to 03/2018 – International Travel
- 06/2014 – Research assistant and field hand (coral core sampling), Australian Research Council Centre of Excellence for Coral Reef Studies, Great Barrier Reef, Australia
- 07/2013 to 11/2017 – Volunteer, Commonwealth Scientific and Industrial Research Organization (CSIRO) "Scientists and Mathematicians in Schools" Program, Perth, Australia
- 08/2012 to 09/2012 – Research assistant, field hand and doctoral research sampling, Woods Hole Oceanographic Institution, Lawson lab, Gulf of Alaska
- 02/2012 to 11/2017 – Doctoral student, University of Western Australia, Earth Sciences, Perth, Australia
- 032011 to 01/2012 – International Travel
- 11/2010 to 02/2011 – Intern, Department of Environment and Conservation, Marine Science Division, Perth, Australia
- 07/2010 to 08/2010 – Research and field hand, University of Western Australia Oceans Institute and CSIRO
- 2006 to 2010 – Research assistant, Australian Institute of Marine Science, Perth, Australia
- 02/2006 to 03/2006 – Intern, DEFICAUX (coastal management NGO), Etretat, France
- 02/2005 to 03/2005 – Intern, AQUACAUX (coastal management, marine science education and aquaculture NGO), Octeville-sur-Mer, France

Fellowships and Awards

- American Society for Biochemistry and Molecular Biology, IMAGE grant writing workshop fellowship, 2024 (USD 1,000)
- Virginia Commonwealth University Postdoctoral Independent Research Award, 2022 (USD 5,000)
- NSF's Coral Reef Bleaching Research Coordination Network Early Career Training Program 2022 (USD 2,5000)
- PhD scholarship award by the University of Western Australia (2012–2017) and the Centre of Excellence for Coral Reef Studies (2012-2014) 22,000 USD per annum
- Fresh Science State Finalist, 2013
- University of Western Australia's Travel Award (2012) USD 1,300
- Australian National Network in Marine Science funding (2010) USD 1,400

Publications

[* Roger as senior author; Underline indicates graduate student in Roger group; # Indicates postdoc in Roger group; ^ Indicates undergraduates in Roger group; Italics indicates students on other groups.]

In preparation

- *Medellin Maldonado F.,* Mayfield A., Monti M., Peixoto R., Ribeiro B., Aeby G., Alvarez-Filip L., Dennis M., Garcia B., Maldonado JG., Harvell D., Johan O., Kellogg C., Muzaky Luthfi O., Mydlarz L., Ortega Rivera J., Perez Trejo A., Peters E., Pizarro V., Roger LM., Tang S-L., Thomas T., Thome P., Ushijima B., Vega-Thurber R., Banaszak A. *R&D Technology Roadmap for Coral Diseases. In prep. Submission estimated Spring 2026.*
- Chowdhury, S., Kruger, A.^, Fetkenhour, K.^, Roger, L.M.* Comparison of Heat Shock Protein expression in coral (*Pocillopora acuta*), upside-down jellyfish (*Cassiopea xamachana*) and glass anemone (*Exaiptasia diaphana*). *In prep. Submission estimated Fall. 2025*
- Fuller, I.#, Fetkenhour, K.^, Roger, L.* Intra- and extracellular oxidative stress in live coral cells of *Pocillopora acuta. In prep. Submission estimated Fall. 2025*
- *Zittle, A.,* Eggen, D.^, Sawall, Y., Roger, L., Lewinski, N., Segal, R., Reynolds, A. A mathematical model for coral bleaching in the reef-building coral. *In prep. Submission estimated Spring 2026*

Under review

- Matthews, J., Ferrier-Pages, C., Moorhead, J., Peixoto, R.S., Raubenheimer, D., Roger, L.M., Suggett, D.J., Tresguerres, M., van Oppen, M.J.H., Voolstra, C.R., Camp, E.F. Harnessing nutritional ecology for coral restoration. *Under review: One Earth*
- Traylor-Knowles, N.*, Bodner*, A.G., Roger, L.M*. Overcoming challenges in marine invertebrate cell culture for research and conservation. Invited. *Under Review: Journal of Experimental Biology*
- *López-Figueroa, N.,* Hallock, P., Stoner, E., Muñoz-Hincapié, M., Vega Pérez, J., Guzmán, W., Luna Pirela, L., Roger, L., Maloney, M., Buckley, K., Ames, C., Morandini, A. Novel designs for field studies of settlement preferences by upside-down jellyfish (*Cassiopea* spp.) polyps. *Under Review: Limnology & Oceanography*

Published

- Sledzieski, S., Versavel, C., Singh, R., Ocitti, F., Devkota, K., Shpilker, P., Roger, L.M., Yang, J.K., Lewinski, N.A., Putnam, H., Berger, B., Klein-Seetharaman, J., Cowen, L. Decoding the functional interactome of non-model organisms with PHILHARMONIC. 2024 *Accepted in Computational Molecular Biology*
- *Hay, Q., Pak, E*., Gardner, L., Shaw, A., Roger, L.M., Lewinski, N.A., Segal, R.A., Reynolds, A.M. 2024. A mathematical model for wound healing in the reef-building coral Pocillopora damicornis. *Journal of Theoretical Biology 593, 111897.*
- Murthy, M., Jasbi, P., Vizgaudis, W., Kumar, L., Olaosebikan, M., Roger, L.M., Yang, J., Lewinski, N., Daniels, N., Cowen, L., Klein-Seetharaman, J. Translating insights from human insulin signaling to coral biology. *PeerJ e16804*
- Roger, L.M.*, *et al.* (2023) Nanobiotech engineering for future coral reefs. *One Earth*. https://doi.org/10.1016/j.oneear.2023.05.008
- Roger, L.M.*, *et al.* (2023) Nanotechnology for coral reef conservation, restoration and rehabilitation. *Nature Nanotechnology*. 1-3. https://doi.org/10.1038/s41565-023-01402-6

Postdoctoral publications (Virginia Commonwealth University)

- Reich, H., Roger, L. M., Camp, E. F., Putnam, H. M. (2022) Trace metals are critical to the nutritional economy of the coral holobiont. 2023. *Biological Reviews* 98.2: 623-642
- Roger, L.M., Lewinski, N. A. (2022) Evaluation of fluorescence-based viability stains in cells dissociated from scleractinian corals *Pocillopora damicornis*. *Scientific Reports,* 12(15297)
- Roger, L.M., *et al* (2022) Engineered nanoceria alleviates thermally induced oxidative stress in free-living *Breviolum minutum* (Symbiodiniaceae, formerly Clade B). Frontiers in Marine Science. p1435. https://doi.org/10.3389/fmars.2022.960173
- Li, S., Roger, L.M., Lewinski, N., Klein-Seetharaman, J., Putnam, H. M., Yang, J. (2022) Spatiotemporal dynamics of coral polyps on a fluidic platform. *Physical Review Applied*, 18 (024078).
- Li, S., Roger, L.M., Kumar, L., Lewinski, N., Klein-Seetharaman, J., Putnam, H. M., Yang, J. (2021). Coral bleaching and tissue loss dynamics captured through the high frequency imagery. *Manuscript submitted for publication with Scientific Reports*
- Jasbi, P., Shivana, M., Visgaudis, W., Kumar, L., Olaosebikan, M., Roger, L.M., Seldzieski, S., Yang, J., Lewinski, N., Singh, R., Daniels, N., Cowen, L., Klein-Seetharaman, J. (2021). Insulin signaling and pharmacology in Humans and Corals. *Manuscript submitted for publication with the British Journal of Pharmacology*
- Li, S., Roger, L.M., Kumar, L., Lewinski, N., Klein, J., Gagnon, A., ... & Yang, J. (2021). Digital image processing to detect subtle motion in stony coral. *Scientific Reports,* 11(7722). https://doi.otg/10.1038/s41598-021-85800-7
- Roger, L.M., *et al* (2021). Applying model approaches in non-model systems: a review and case study on coral cell culture. *PloS one,* 16(4), e248953
- Roger, L.M., *et al* (2020) Coral microbioreactors for model validation. *F1000Research* 2020, 9:1396 (poster) (doi: 10.7490/f1000research.1118398.1)
- Kumar L., Lyn-Goin M., Olaosebikan M., Roger L.M., Reich H., Putnam H., Lewinski N., Singh R., Daniels N., Cowen L., Klein-Seetharaman J. (2020) Toll-Like receptor signaling in *Pocillopora damicornis* [version 1; not peer reviewed]. *F1000Research* 2020 9:1411 (https://doi.org/10.7490/f1000research.1118411.1)

Graduate school publications (University of Western Australia)

- Roger, L. M., *et al* (2018). Geochemical and Crystallographic Study of *Turbo torquatus* (Mollusca: Gastropoda) From Southwestern Australia. Geochemistry, Geophysics, Geosystems.
- Roger, L. M., *et al* (2017). Geochemical and microstructural characterisation of two species of cool-water bivalves (*Fulvia tenuicostata* and *Soletellina biradiata*) from Western Australia, Biogeosciences. doi:10.5194/bg-14-1721-20172.
- Roger, L. M., *et al* (2012). Comparison of the shell structure of two tropical Thecosomata (*Creseis acicula* and *Diacavolinia longirostris*) from 1963 to 2009: potential implications of declining aragonite saturation. ICES Journal of Marine Science: Journal du Conseil, 69(3), 465-474.

Press coverage

- ASU News & KJZZ radio: *SMS Students work to improve river preserve's health*. 2025.
- SciShow YouTube: *3 Weird ways science is saving coral reefs.* 2024. https://youtu.be/H1IA8X_DexM?feature=shared
- ASBMB TikTok: *Have you ever heard oc oral baby food?! To stop coral bleaching and maintain the Earth's coral reefs.* Locke Rottinghaus M. 2024. https://www.tiktok.com/@theasbmb/video/7353671894194851118
- ASU College of Liberal Arts and Sciences Instagram: *Fostering positive change.* 2024. https://issuu.com/asuthecollege/docs/issuu-minimag3--1
- YouTube: *An exploration of coral bleaching through the lens of stop motion film.* Bernabe C. & Hasegawa P. (ASU Barret's Honor students). Original link: https://youtu.be/xOSJBCaT0aI?feature=shared ; Reposted by ASU's Ask A Biologist: https://youtu.be/3GaMkFTK4hI?feature=shared
- ASBMB TODAY: *Cities Under the Sea*. Locke Rottinghaus M. 2024. https://www.asbmb.org/asbmb-today/science/040324/cities-under-the-sea
- REEFBITES: *The Future is Nano.* Kish H. 2024. https://reefbites.com/2024/05/22/the-future-is-nano/
- KJZZ Phoenix: *This ASU professor thinks nanotechnology is the key to saving the coral reefs.* Gilger L. 2023. https://www.kjzz.org/2023-06-28/content-1850710-asu-professor-thinks-nanotechnology-key-saving-coral-reefs

- ASU News: *School of Molecular Sciences researcher awarded $1.2M to study coral bleaching.* Klemaszewski J. 2023. https://news.asu.edu/20230721-school-molecular-sciences-researcher-liza-roger-awarded-12-million-study-coral-bleaching
- ASU News: *Leveraging nanotechnology to save coral reefs.* Rozul D. 2023. https://news.asu.edu/20230612-solutions-leveraging-nanotechnology-save-coral-reefs
- AQUAHOY: *New ASU lab to grow corals, shed light on underpinnings of coral bleaching.* Lujon M. 2023. https://aquahoy.com/asu-lab-grow-corals-shed-light-underpinnings-coral-bleaching/
- ASU News: *School of Molecular Scineces welcomes eclectic new faculty.* Green J. 2023. https://usenate.asu.edu/school-molecular-sciences-welcomes-eclectic-new-faculty
- Roger, L.M., Reyes-Bermudez, A., Traylor-Knowles, N. (2022) The Cnidarian Cell Culture Consortium. *Reef Encounter*, (51) p71
- Roger, L.M., Klein-Seetharaman, J., Klein, C. (2022) When Art Meets Coral Research: the tandem humans-corals competition exhibition. Reef Encounters, (51) p16
- How-to talks by postdocs (Virginia Commonwealth University): *Using environmental engineering to benefit coral reefs.* Roger L.M. 2021. https://scholarscompass.vcu.edu/howtotalks/29/

Presentations

Conference presentations

- Roger L.M. *Temperature and symbiotic cnidarians.* 8th International Cassiopea Workshop and Conference. Saint Augustine, Florida, USA.
- Roger L.M. *Biochemistry & Climate Change: Special Session Opening.* 04/2025. American Society for Biochemistry and Molecular Biology annual meeting, Chicago, Illinois, USA
- Roger L.M. *Cnidarians in hot water.* 04/2025. Special Session: Biochemistry & Climate Change, American Society for Biochemistry and Molecular Biology annual meeting, Chicago, Illinois, USA

Group conference presentations & posters

[* Roger as senior author; Underline indicates graduate student in Roger group; # Indicates postdoc in Roger group; ^ Indicates undergraduates in Roger group; Italics indicates students on other groups.]

- Murthy M., Roger L.M., Klein-Seetharaman J. Oral presentation and poster: *Insulin signaling pathways in reef-building corals.* 2025. IGF and Insulin System in Physiology and Disease Gordon Research Seminar, California, USA
- Murthy M., Roger L.M., Klein-Seetharaman J. Oral presentation: *Insulin signaling pathways in reef-building corals.* 04/2025. American Society for Biochemistry and Molecular Biology annual meeting, Chicago, Illinois, USA
- Kruger A.^, Chowdhury S., Roger L.M.*, Oral presentation: *Heat Shock as indicator of symbiotic resilience: insights from Cassiopea xamachana.* (06/2025). 8th International Cassiopea Workshop and Conference. Sainte Augustine, Florida, USA.
- Chowdhury S., Kruger A.^, Roger L.M.*, Poster: *Heat Shock Proteins in three cnidarian species: implications for thermal tolerance and resilience to climate change.* 04/2025. American Society for Biochemistry and Molecular Biology annual meeting, Chicago, Illinois, USA
- Murthy M., Roger L.M., Klein-Seetharaman J. Poster: *Insulin signaling pathways in reef-building corals.* 11/2024. Ocean Futures Symposium, Tempe, Arizona, USA
- Hynds J., Rodrigues-Roig G., Carbonne C., Sawall Y. Poster: *Pulsed artificial upwelling can reduce coral bleaching during thermal stress as indicated by elevated photo-pigment concentration.* (07/2024) European Coral Reef Symposium, Napoli, Italy
- Chowdhury S., Kruger A.^, Roger L.M.*, Poster: *Comparative study of Heat Shock Protein expression in three cnidarian species.* 11/2024. Ocean Futures Symposium, Tempe, Arizona, USA
- Kruger A.^, Chowdhury S., Roger L.M.*, Oral presentation: *Heat Shock Protein expression in Cassiopea xamachana.* (05/2024). 7th International Cassiopea Workshop and Conference. Key Largo, Florida, USA.

- Chowdhury S., Roger L.M.*, Oral presentation: *Subcellular expression of Heat Shock Proteins in the coral holobiont.* 03/2024. American Society for Biochemistry and Molecular Biology annual meeting, San Antonio, Texas, USA
- Chowdhury S., Roger L.M.*, Poster: *Subcellular expression of Heat Sock Proteins in the coral holobiont.* 02/2024. Ocean Sciences Meeting, New Orleans, Louisiana, USA

Students Honors

[Underline indicates graduate student in Roger group; # Indicates postdoc in Roger group; ^ Indicates undergraduates in Roger group; Italics indicates students on other groups.]

- Avery Kruger^: 8th International Cassiopea Workshop student travel award (2025)
- Saborni Chowdhury: ASU Graduate Student Governance (GSG) Travel Award (2025)
- Meghana Murthy: Outstanding Research Assistant Award, ASU School of Molecular Sciences (2025)
- Meghana Murthy: Outstanding Teaching Assistant Award, ASU School of Molecular Sciences (2025)
- Meghana Murthy: Graduate Excellence Award, ASU College of Liberal Arts and Sciences (2025)
- Meghana Murthy: Graduate Excellence Award, ASU College of Liberal Arts and Sciences (2025)
- Meghana Murthy: Biodesign student travel award, ASU Biodesign Institute (2025)
- Meghana Murthy: Outstanding graduate student merit award, ASU School of Molecular Sciences (2024)
- Janna Hynds: Travel award, European Coral Reef Symposium (2024), Napoli, Italy
- Saborni Chowdhury: Best poster on coral research (2024), ASU's Ocean Futures Symposium
- Saborni Chowdhury: ASU Graduate Student Governance (GSG) Travel Award (2024)
- Saborni Chowdhury: Distinguished Teaching Assistant Award (2023), ASU School of Molecular Sciences

Funding Status

- DOE award (Nov. 2024): Southwest Regional Carbon Dioxide Removal Testbed Facility; senior personnel for the Marine Carbon Dioxide Removal testbeds (US$6.2M total, 2025-2027). *Pending*
- ASU Presidential Strategic Investment Fund (US$300K total, 2024-2027)
- NSF IntBIO: Collaborative Research: Integrating nanobiotechnologies to understand the role of nitro-oxidative stress in the coral-dinoflagellate mutualistic symbiosis dynamics, 2023-2026 (US$1.2M total, 2024-2027) award number 2316389.
- ASU School of Molecular Sciences, Startup.

Teaching experience

Course taught

I teach both undergraduate and graduate courses with a focus on interdisciplinary learning and real-world applications. In my course BCH494/598, I integrate biochemical concepts with the study of environmental change, helping students understand the connections between biochemistry and human health. I aim to inspire critical thinking and innovation by linking classroom knowledge to global challenges.

In the Environmental Chemistry Laboratory (CHM 303), I emphasize hands-on, student-led research at the Hassayampa River Nature Preserve. This course allows students to apply environmental chemistry principles to real-world problems, fostering skills in fieldwork, data analysis, and scientific communication. My teaching methodology encourages active learning, collaboration, and the practical application of scientific theories in addressing environmental issues.

I am committed to creating an engaging and dynamic learning environment where students can develop both their technical expertise and problem-solving abilities.

Course code	Title	Semester & Year	Credit hours	Enrollments
CHM 303	Environmental chemistry lab	Spring 24' Spring 25'	2	7/16 8/16

BCH 492/598	Special topic: Biochemistry & Climate Change	Fall 24'	3	15/24
LEA 192	Discovery Seminar: Eco-Logical Health-Planetary Health	Spring 25'	1	7/25

Mentoring

I mentor undergraduate and graduate students, including Barrett Honors College scholars, and have advised students presenting research at conferences and receiving multiple awards. My research team currently includes undergraduates, Master's, and PhD students from various disciplines, and I have hosted students from programs like the NSF REU.

[Names in black are current lab members, names in grey are past members.]

Name	Year(s), Program	Research topic(s)
Graduate students:		
Saborni Chowdhury	2023-to date, PhD	Heat Shock Proteins in Symbiotic Cnidarians
Meghana Murthy	2024-to date, PhD	Insulin signaling in coral cells
Liz Wu	2025-to date, PhD	Aquaporin characterization of corals
Somok Banerjee	2025-to date, PhD	Microbiome of corals
Audrey Paduda	2023-2024, PhD	Thermosensing in coral cells
Jana Hynds	2023 to 2025, MS	Effects of artificial upwelling on coral health
Cassandra Real	2024 to 2025, MS	Organoids and upside-down jellyfish
Sydney Berg	2024, MS	3D bioprinting coral cells
Undergraduate students:		
Chase Gorden	2025-to date	Coral husbandry
Kendra Masek	2025-to date	Coral husbandry
Avery Kruger	2023-to date, BSc (graduated)	Heat Shock Proteins in upside-down jellyfish
Kate Fetkenhour	2023-to date, BSc (graduated)	Antioxidant nanoparticles, oxidative stress
Cong Kha Le	2024 to 2025, BSc (Y2)	Algal photosynthesis, oxidative stress
Kevin Shaw	2024-to date, BSc (Y1)	Polyp bailout and microfluidics
Faiza Omar Prometti	2024-to date, BSc (Y1)	Organoids and upside-down jellyfish
Daniella Eggen	2024-to date, BSc (Y3)	Coral cell cultures methods
Madeline Cano	2024 to 2025, BSc (graduated)	ROS transmembrane transport simulation
Ariana Ewell	2023-2024, BSc (Y2)	Heat Shock Proteins in Symbiotic Cnidarians
Diego Valenzuela	2023, BSc (Y2)	Jellyfish husbandry
Brandy Lyon	2023, BSc (Y2)	Jellyfish husbandry
Reuven White	2023-2024, BSc (graduated)	Antioxidant nanoparticles, oxidative stress
Cecelia Darter	2023-2024, BSc (Y2)	Thermosensing in coral cells
Naomi Wright	2023-2024, BSc (Y2)	Coral husbandry
Sayeeda Sajja	2023, BSc (Y1)	Coral husbandry
Postdoctoral researchers:		
Joshua Heitzman	2024	NSF funded project on oxidative stress in corals
Ioan Fuller	2025-to date	NSF funded project on oxidative stress in corals
Summer interns:		
Alberto Rascon	Summer 2024 (volunteer)	Menthol induced bleaching in corals
McKenna Casey	Summer 2024 (NSF REU)	3D bioprinting coral cells
Technical staff:		
Avery Kruger	Summer 2025-to date	PSIF funded project on environmental stress
Kate Fetkenhour	Spring 2025-to date	NSF funded project on oxidative stress in corals

Professional development activities

- CORDAP Coral Disease Workshop (invited), Cancun, Mexico, Fall 2024
- "*Building worlds to build knowledge: How to create a role-playing game for classroom use"* workshop by Prof. Gabriella Papale (Salve Regina University), Chicago, USA, Spring 2025

- "Exploring uses of AI in teaching scientific writing" workshop by Prof. Michael Ibba (Chapman University) and Prof. Susan Lang (Ohio State University), Chicago, USA, Spring 2025

Service

Professional service

- ASBMB annual meeting special session chair *"Biochemistry and Climate Change"*, Chicago, Spring 2025
- Service as a reviewer for *PLOS ONE*, *JoVE*, *Drug and Chemical Toxicology*, *Environmental Science and Pollution Research, ACS, Communication Biology, Frontiers in Marine Science, Science of the Total Environment, and Scientific Reports;*
- Service as session organizer / chair at the #DiscoverBMB, the American Society of Biochemistry and Molecular Biology, "Biochemistry and Climate Change", March 2025.
- Service as session organizer at the 2024 Ocean Futures Symposium: Coral Health Initiative Roundtable.
- Service as session organizer / chair for Great Lakes Bioinformatic Conference (Jan.2021), Synthetic Coral HDR retreat (Dec. 2020), Cnidarian Cell Culture Consortium (May 2021-ongoing)
- Science communicator and translator for the International Coral Reef Society Student Chapter (2021 to date)
- STARS (Supporting Tech Achievement for Richmond Students) career coach (May 2021 to Nov. 2022)
- Executive Board member of Virginial Commonwealth University Postdoctoral Association (March 2021 to Nov. 2022)

University and departmental service

- Reviewer for the Council of Graduate Schools' Distinguished Dissertation Award , 2025.
- Member of the MOSAIC committee dedicated to justice, diversity, equity and inclusion, 2023 to date.
- Member of the graduate student admissions committee, 2023 to date.

Memberships: American Society for Biochemistry and Molecular Biology (2023 to date) · International Coral Reef Society (2012 to date, interrupted) · Sigma Xi (2021 to date) · Student member of the Centre of Excellence for Coral Reef studies (2012-2014) · Society of Underwater Technologies · the Australian Coral Reef Society · Australian Marine Science Association.