

DR. EMMA S. PERRY
 Electron Microscope Manager
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ACADEMIC DEGREES

Ph. D. Biology

UNIVERSITY OF SOUTH FLORIDA

1990-1997
 TAMPA, FLORIDA

DISSERTATION: Clypeasteroid intraskeletal matrix proteins.

The intraskeleton matrix proteins were extracted from a variety of clypeasteroid taxa. These proteins were then characterized and the data used to investigate the relationships between these proteins.

B. Sc. Biology (Zoology) Hons.

UNIVERSITY OF EXETER

1987-1990
 EXETER, DEVON, UNITED KINGDOM

PROFESSIONAL EXPERIENCE

Electron Microscope Manager

UNIVERSITY OF MAINE,

2020-present
 ORONO, MAINE

Professor of Marine Biology

UNITY COLLEGE

2015-2020
 UNITY, MAINE

Associate Professor of Marine Biology and Physiology

UNITY COLLEGE

2004-2015
 UNITY, MAINE

Assistant Professor of Marine Biology and Physiology

UNITY COLLEGE

1997-2004
 UNITY, MAINE

BI 1014 Biology I, BI 1024 Biology II, BI 2033 Marine Biology, BI 3883 Tropical Marine Ecology, BI 4023 Coral Ecology and Management, BI 3253 Invertebrate Zoology, BI 3293 Entomology, BI 1213 Biological Imaging, BI3111 Themes in marine science: Coral Culturing.

Graduate Teaching Assistant

UNIVERSITY OF SOUTH FLORIDA

1991-1996
 TAMPA, FLORIDA

GRANT AWARDS

Sequencing Tardigrades for publications, Flagship Faculty Grants for Scholarship	\$1,484
Can foraging shorebirds provide us with a cheap index of marine community health? A pioneering effort to link bird activity and meiofaunal community structure, PADI Grant, 2018	\$5,522
NSF IUSE MATH: SUMMIT-P A national consortium for synergistic undergraduate mathematics via multi-institutional interdisciplinary teaching partnerships (Marine Biology & Calculus @ Unity College)	\$2.65 Million
The intertidal distribution of intertidal tardigrades on Prince Edward Island, CA, Faculty Research award	\$984.30
The relationship between morphology and ecology of <i>Echiniscoides sigismundi</i> and <i>E. wyethi</i> on Allen Island, Up East Foundation, 2016	\$14,968
Faculty Undergraduate Mentor Award	\$1000
Distribution and ecology of <i>Echiniscoides wyethi</i> on Allen Island, Up East Foundation, 2015	\$14,880.36
NSF ROA #1433142 supplemental funding to visit Kansas for 2 weeks (for myself and a bryologist)	\$6679
Preliminary Biodiversity Surveys to Establish Baseline Trophic Structure at Allen Island, St. George, Knox Co., Maine, USA, Up East Foundation (with A.Arnett, D. Potter, A. Baker)	\$4,875.00 (\$13,035.00)
The Tardigrades of Maine, Faculty Research Award, Unity College 2014	\$1,292.85
The Tardigrades of Maine, Faculty Research Award, Unity College 2013	\$819.46
A Preliminary Survey of the Tardigrades of Maine, Faculty Research Award, Unity College 2011	\$1,624
Population study of <i>Mysis</i> Shrimp, Faculty Research Award, Unity College 2006	\$2,500
SMARTer Kids grant for Smart Roomware products, 2002	\$689
Institute of Biomolecular Science, Summer Fellowship Awards 1992, 1993.	\$1,417

Institute of Biomolecular Science, Travel Grant, Summer 1993	\$300
Dept. Biology, Travel Grant, Summer 1993	\$200
Sigma Xi, Tampa Chapter	\$100

PUBLICATIONS

- Perry ES, Miller WR, Kaczmarek Ł. Additional recommended abbreviations for the names of genera of the phylum Tardigrada. *Zootaxa*. 2021; 4981(2):398. DOI: 10.11646/zootaxa.4981.2.12
- Miller, W.R., McCowan P.J., Perry, E.S., Schulze, S.L., Shannon, R. and Henry, C.B.S. (2020) Tardigrades of North America: New records of occurrence for three species of green tardigrades (Heterotardigrada, Echiniscoidea, Echiniscidae, *Viridiscus*), *Transactions of the Kansas Academy of Science*, 123 (1-2), 235-241. <https://doi.org/10.1660/062.123.0122>
- Perry, E.S., Miller, W.R. & Kaczmarek, Ł. (2019) Recommended abbreviations for the names of genera of the phylum Tardigrada, *Zootaxa*, 4608 (1) <http://dx.doi.org/10.11646/zootaxa.4608.1.8>
- Miller, W.R. & Perry, E.S. (2019) Adjustments to the Annotated zoogeography of non-marine Tardigrada. Part III: North America and Greenland by Kaczmarek, Michalczyk & McInnes (*Zootaxa* 4203). *Zootaxa*, 4543 (1):099-114
- Perry, E.S., Rawson, P., Ameral, N.J.[^], Miller, W.R. and Miller J.D. (2018) *Echiniscoides rugostellatus* a new marine tardigrade from Washington, U.S.A. (Heterotardigrada: Echiniscoidea: Echiniscoididae), *Proceedings of the Biological Society of Washington*, 131: 182-193.
- Miller, W.R. and Perry, E.S. (2016) Marine Tardigrades of the Americas, *Zootaxa*, 4126 (3): 375-396 doi: 10.11646/zootaxa.4126.3.4
- Perry, E.S. and Miller, W.R. (2015) *Echiniscoides wyethi*, a new marine tardigrade from Maine, U.S.A. (Heterotardigrada: Echiniscoidea: Echiniscoididae), *Proceedings of the Biological Society of Washington*, 128 (1): 103-110. doi: 10.2988/0006-324X-128.1.103
- Perry, E.S., Miller, W.R. and Lindsay, S. (2015), Looking at tardigrades in a new light: using epifluorescence to interpret structure. *Journal of Microscopy*, 257: 117–122. doi: 10.1111/jmi.12190
- Creaser, E. S. 2013. *Why the Big Picture Matters*. Published online and emailed to every Sigma Xi member: <http://www.sigmaxi.org/programs/giar/newsletters/022013GIARNewsletter.shtml>
- Creaser, E.S. & Johnson, A. 2009. *Your life as an Environmental Biologist*. Published online: www.thehighschoolgraduate.com/editorial/BO/environmental_biologist.htm
- Polson, E. S., Robbins, L. L. and Lawrence, J. M. 1993. *Intraskelatal matrix proteins in echinoderms*. *Journal of the Marine Biological Association U.K.*, **73**, 727-730.

PUBLISHED ABSTRACTS FOR CONFERENCE PRESENTATIONS

- Perry, E.S. 2018. An Initial Survey of marine tardigrades from Prince Edward Island, Canada. 14th International Tardigrade Conference, Copenhagen, Denmark
- Neitzel, S.B.[^] & Perry, E.S. 2018. *Diphascoscon pingue brunsvicense* is a synonym for *Diphascoscon pingue*. 14th International Tardigrade Conference, Copenhagen, Denmark
- Perry, E.S., Meyer, H., Fontoura, P. & Miller W.R. 2018 Splitting the *Pseudechiniscus* line. 14th International Tardigrade Conference, Copenhagen, Denmark
- Shulze, S. & Perry, E.S. 2018 The first record of marine tardigrades from New Jersey, USA. 14th International Tardigrade Conference, Copenhagen, Denmark
- Diaz Eaton, C. & Perry, E.S. 2017. Diving into Calculus. CoRAL: A SUMMIT-P project. Joint Math Meetings, Atlanta, Perry, E.S. 2017 The distribution of marine tardigrades in the intertidal zone of Allen Island, Maine. Northeast Natural History Conference, Worcester, MA
- McGarrigle, S.[^], Perry, E.S., McKnight, A., Bibles, B. and Welch, L. 2017. The effect of weather conditions on Common (*Sterna hirundo*) and Arctic (*Sterna paradisaea*) terns foraging patterns. Northeast Natural History Conference, Worcester, MA
- Meyer, H.A., Hinton, J.G. and Perry, E.S. 2017. New England Terrestrial Water Bears. Northeast Natural History Conference, Worcester, MA
- Gray, J.F.[^] and Perry, E.S. 2017. Effects of forest changes on understory tardigrade populations in Waldo County, Maine. Northeast Natural History Conference, Worcester, MA
- Neitzel, S.B.[^] and Perry, E.S. 2017. Determination of *Diphascoscon pingue* subspecies in Maine via modern morphometrics. Northeast Natural History Conference, Worcester, MA
- Rago, B.[^] and Perry, E.S. 2017. Investigating the distribution of *Minibiotus intermedius* and *Macrobotus furcatus* in Acadia National Park. Northeast Natural History Conference, Worcester, MA
- Pittendreigh, J.[^], Rago, B.[^] and Perry, E.S. 2016. An initial survey of Tardigrada in Acadia National Park. 13th Acadia National Park Science Symposium, Schoodic Point, Maine.
- Perry, E.S. & Miller W.R. 2015. The Tardigrade Fauna of Allen Island, Maine, U.S.A. 13th International Tardigrade

Symposium, Modena, Italy.

- Tway, C; (Creaser E. faculty sponsor) 2011. Tardigrades of Mount Desert Island, Maine. Sigma Xi Student Research Conference, Raleigh Durham, North Carolina.
- Romney, C.; Creaser, E.S. & Arnett, A. 2008 *A Behavioral Response of Asterias forbesi: Sensing Umami*. Fifth NAEC, Florida Institute of Technology, FL
- Creaser, E.S. 2006 Sigma Xi Grants-in Aid of Research. Council for Undergraduate Research 2006 National Conference: Learning through Research, DePauw University.
- Creaser, E. S., Malmberg, M. and Fox, D. 2000. *Integration of biology into an interdisciplinary environmental stewardship curriculum*. American Zoologist, 39(5), 74A.
- Creaser, E. S. 2000. *An unusual mucus gland on the tube feet of Acrocnida brachiata, a burrowing brittlestar*. American Zoologist, 39(5), 52A.
- Polson, E. S., Robbins, L. L. and Lawrence, J. M. 1994. *Clypeasteroid skeletal matrix proteins (Abs)*. In: Echinoderms through time. David, B., Guille, A., Féral, J-P., Roux, M. (eds.), 835. Balkema, Rotterdam.
- Polson, E. S., Robbins, L. L. and Lawrence, J. M. 1992. *Shell matrix proteins - a potential tool for investigating the phylogenetic relationships of the Echinodermata*. The Paleontological Society, Special Publication 6, 236. Abstracts and Program of the Fifth North American Paleontological Convention.

CHAPTERS REVIEWED

- Chapter 24: Circulation and Chapter 23: Transportation of Oxygen and Carbon Dioxide. *In: Animal Physiology 3ed. Hill, R.W.; Wyse G.A. & Anderson M. in press. Sinauer Associates*
- Chapter 24: Circulation *In: Animal Physiology 2ed. Hill, R.W.; Wyse G.A. & Anderson M. 2008. Sinauer Associates*

INVITED WORKSHOP PRESENTATIONS

- Perry, E.S. 2018. Grant writing workshop. Sigma Xi Student Research Conference. San Francisco, CA
- Creaser, E. S. 2010 and 2011 Successful Grant Writing using GIAR as a template, Sigma Xi Student Research Conference. Raleigh, NC
- Creaser E. S. & Padgett, P. Successful Grant Writing: Using GIAR as a model Sigma-Xi annual meeting, Nov 2010 Raleigh, NC
- Sigma-Xi annual meeting, Nov 2007 Orlando, FL – series of workshops explaining the role of GIAR to the different constituencies
- North American AEE conference workshop – Adventure Bellydancing, April 11-13th, 2008
- Inland Hospital Wellness, Waterville February 19th, 2008
- Two sessions on in-service day March 19th, 2007; Fryeburg
- Health and Wellness Presentation May 19th, 2007