**Dr. Kathryn Schoenrock**

I am a phycologist that studies marine ecology, **Adjunct Lecturer**

with 7 years international research experience post NUI Galway, Ryan Institute, Galway, IE

PhD. I study kelp forests and coralline algae habitats kate.schoenrock@outlook.com

in the northeast Atlantic, specializing ecophysiology @katesrock

and diversity of species, chemical ecology, @Kelp\_Res

and the response of species (as well as communities) www.nuigalway.ie/Zoology/Research

to climate change stressors including ocean /KelpRes

acidification and warming in marine habitats.

**Education**

**Ph.D.** **Biology** **2014**

University of Alabama at Birmingham (UAB)

*Title: “Ecology and physiology of Antarctic macrophytes under the influence of abiotic and biotic stressors”*

**M.S. Biology 2011**

UAB

*Title: “The effect of endophyte presence on growth and survival of Antarctic macroalgae”*

**B.S. Marine Biology 2006**

University of California, Santa Cruz (UCSC)

*Title: “Subcanopy algae composition in kelp forests along the Big Sur coastline”*

**Research Positions**

**Current position**

Deputy Harbormaster A, San mateo County Harbor District, Pillar Point Harbor.  **2021-present**

Shop Steward, OE3

Editorial Office for the European Journal of Phycology and Applied Phycology, **2020-present**

Taylor and Francis

**National University of Ireland Galway**

Adjunct Lecturer **2021–present**

Senior Postdoctoral Researcher, “KelpRes: the diversity and resilience of kelp **2019–2021**

ecosystems in Ireland”

Scientific Dive Officer, National University of Ireland (NUI) Galway **2019-present**

**Binational Science Foundation 2018–2019**

Collaborator with Krueger-Hadfield and Rilov “The impacts of climate change

on algal mating system and life cycle evolution in the sea: a case study of

macroalgae at the warm edge of a fast warming sea”

**NUI Galway 2016–2018**

Irish Research Council postdoctoral fellow “Closing the knowledge gap on Irish

 kelp forest ecology

**University of Glasgow 2015–2016**

Research Associate in Global Marine Change, Calving glaciers: long term

 validation and evidence (CALVE).

**UAB 2009–2014**

Graduate Research and Teaching Assistant

**Friday Harbor Labs, University of Washington Fall 2008**

Research apprentice, ‘Assessing Predation in the Marine Environment’

**UCSC**

Research assistant and field technician, Potts Lab **2007–2009**

Research assistant and field technician, Raimondi-Carr Lab **2006–2008**

Lab technician and marine mammal trainer, Williams Lab **2002–2006**

**Teaching**

***Courses taught***

**California State University, East Bay**

Evolutionary Biology, BIOL 320 **Spring 2022**

**NUI Galway**

NAUI/CMAS Scientific Diving Course- AAUS standards **2020-present**

International Summer Field School, Intertidal Ecology **2018**

Botany, ‘Primary Productivity and Global Change’ **2017–2018**

**University of Glasgow**

‘the Modern World’ Earth Science 2Q: Paleobiology **2016**

‘Marine Environment’ Earth Science 1Y: Evolution of the Earth **2016**

**UAB**

‘Human Physiology’: introduction to human physiology for non-majors and **2011–2014**

nursing students covering a range of topics from diffusion to the pulmonary

system.

‘Introductory Biology’: introduction to Biology, covering organic molecules **2009–2011**

(including gel electrophoresis and PCR), metabolic pathways, evolution, ecology,

and physiology and taxonomy of all phyla.

**UCSC**

Teaching Assistant and Collector, Marine Botany (BIOE 120/L) **2006**

***Mentorship***

**MSc Students**

Clara M. Schubert (Primary supervisor), University of Ghent, Belgium **2021–present**

Susanna Pesari (Co-supervisor), University of Jyväskylä, Finland **2020–present**

**PhD Students**

Johanne Vad (field supervisor), University of Edinburgh-Heriott Watt **2016**

**Erasmus students**

Thomas Boudou, University of Bordeaux **2017**

Marion Bacquet, University Quimper **2016**

**Undergraduate students**

McKenzie Ginter, NUI Galway **2020–present**

Alanah Boyle, NUI Galway **2019–2020**

Eoghan Alton, NUI Galway **2019–2020**

Aisha O’Connor, NUI Galway **2017-2019**

Aaron McMahon, NUI Galway **2017–2018**

Katie Huston, NUI Galway **2017–2018**

Melissa O’Connor, University of Glasgow **2016**

Undergraduate mentor UAB **2013–14**

**Research Assistants**

Kenan Chan, NUI Galway **2019–2020**

Łukasz Stachnik, University of Glasgow **2015–2016**

***Workshops hosted***

PAM fluorometry workshop, PSA Rhode Island workshop **2023**

Metabarcoding Data Analysis, PSA virtual meeting **2021**

 Remote Sensing of Algal Communities, PSA Miami meeting **2019**

Metabarcoding Data Analysis, PSA Monterey meeting **2017**

Microscopy workshop: identification techniques for cryptic algal **2015**

species, PSA Philadelphia meeting

 Aquatic Sciences Career Panel: One Degree, Many Paths, **2014**

JASM Portland meeting

**Profession certifications**

**2021 CMAS** Scientific diving instructor Mon\*\*

 **NAUI** Instructor trainer

**2018 CFT** SCUBA club instructor Mon\*

**2018 Sea Suas** mental health certificate

**2017 ISC** Advanced powerboat certificate (III)

**2016 CFT** club diver

**2015** **NERC** scientific diving training course, SAMS

**2014 NASE** and **NAUI** course instructor

**2012 NAUI** Dive Master

 **DAN** course instructor (DFAPro and CPR provider)

**2007 MOCC** open water module boating certificate and **FWS** ranger training module

**2005 AAUS** scientific diver

**Diving Training and Proficiency**

 3 CMAS Scientific Diving students

4 NAUI Scientific Diving students

+ 40 open water and advanced diver students mentored (NAUI, CFT and NASE)

 + 100 DAN DFAPro students trained

 > 1500 scientific dives including 200 deep dives (+30m), 400 polar dives, and 600+ dry suit dives

 MOCC boating, ISC powerboating level 3

**Publications** \*Corresponding author, #Undergraduate student or research assistant

***Book Chapters***

Fullenkamp, C., **Schoenrock, K.M.**, et…. (in progress) Chapter 4. Making the socioeconomic case for the protection and management of kelp. UN Global Kelp Report.

**Schoenrock, K.M.**, S.A. Krueger-Hadfield, K. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, A. Power (2022). **EPA Research Report 413: The Diversity and Resilience of Kelp Ecosystems in Ireland.** https://www.epa.ie/publications/research/water/research-413-the-diversity-and-resilience-of-kelp-ecosystems-in-ireland.php

Salm, J.L., **K.M. Schoenrock**, J.B. McClintock, C.D. Amsler, and B.J. Baker\*. (2018) The Status of Marine Chemical Ecology in Antarctica: Form and Function of Unique High-Latitude Chemistry. In: Marine Natural Products and Chemical Ecology. Eds. M. Puglisi and K.L. Van Alstyne. CRC Press. Chapter 2: 27–69.

Young, R.M., **K.M. Schoenrock**, J.L. von Salm, C.D. Amsler, and B.J. Baker\*. (2015) Structure and Function of Macroalgal Natural Products. In: Natural Products from Marine Algae. Eds. D. Stengel and S. Connan. Springer, Berlin. pp. 39–73.

***Extended abstracts***

**Schoenrock, K.\*,** Ł. Stachnik, J. Vad, N.A. Kamenos, D. Pearce, B. Rea, J.E. Schofield, J. Lea, D. Mair (2018).Distribution of Benthic Communities in a Fjord-Marine System in southwestern Greenland, with a focus on algal dominated habitats. International Youth Scientific and Practical Conference. Arctic Research: From Extensive to Integrated Development.

**Schoenrock, K**\*, C.D. Amsler, B.J. Baker, and J.B. McClintock (2012). Experimental Marine Ecology along the open coastline of the western Antarctic Peninsula. Proceedings of the 2012 Annual Meeting of the American Academy of Underwater Sciences. pg. 186–192.

***Editorials***

Schubert, N.\* **K.M. Schoenrock**, Joao Silva, Paulo A. Horta, Julio Aguirre, Nicholas Kamenos, Laurie Hofmann(2020). Coralline Algae: Globally Distributed Ecosystem Engineers. Frontiers in Marine Science. *Frontiers in Marine Science* 7:352. doi: 10.3389/fmars.2020.00352

***Peer-reviewed Journal Articles***

N. Schubert\*, V. Peña, V.W. Salazar, P.A. Horta, P. Neves, C. Ribeiro, F. Otero-Ferrer, F. Tuya, **K.M. Schoenrock**, L.C. Hofmann, L. Le Gall, R. Santos, J. Silva(in press). Rhodolith physiology: Towards a better mechanistic understanding of intra- and interspecific differences. *Frontiers in Marine Science*.

Pearce D, Lea J, Mair D\*, Rea B, Schofield JE, Kamenos N, **Schoenrock K**., Stachnik L., Lewis B, Barr I, and Mottram R (in press). Greenland tidewater glacier advances rapidly during era of Norse Settlement. *Geology,*

Chan, K.M.\*#, **K.M. Schoenrock**, T. O’Callaghan, R. O’Callaghan, A.M. Power. (2021). New Record of *Undaria pinnatifida* (Harvey) Suringar in eastern Ireland. *The Irish Naturalist,* **38**: 39–42.

**Schoenrock, K.M.**\*, T. O'Callaghan, R. O'Callaghan, A.M. O'Connor#, and D.B. Stengel (2021). An ecological baseline for *Laminaria hyperborea* forests in Ireland. *Limnology and Oceanography.* [**doi.org/10.1002/lno.11890**](https://doi.org/10.1002/lno.11890)

Peña, Viviana\*, David Bélanger, Patrick Gagnon, Joseph Richards, Line Le Gall, Jeffery Hughey, Gary Saunders, Sandra Lindstrom, Eli Rinde, Vivian Husa, Hartvig Christie, Stein Fredriksen, Jason Hall-Spencer, Robert Steneck, **Kathryn Schoenrock**, Janne Gitmark, Ellen Grefsrud, Marc Anglès d’Auriac, Erwann Legrand, Jacques Grall, Thomas Mumford, Nicholas Kamenos, Paul Gabrielson. (2021). Lithothamnion species (Hapalidiales, Rhodophyta) in the Arctic and Subarctic: providing a systematics foundation in a time of rapid climate change based on DNA sequencing of type and recent specimens. *European Journal of Phycology*. 10.1080/09670262.2021.1880643

**Schoenrock, K.M.\***, T. McHugh,and S.A. Krueger-Hadfield (2021). Revisiting the ‘bank of microscopic forms’ in macroalgal-dominated ecosystems. *Journal of Phycology*, 57(1): 14–29. [**doi.org/10.1111/jpy.13092**](https://doi.org/10.1111/jpy.13092)

**Schoenrock, K.M.\***, K.M. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, S.A. Krueger-Hadfield, A.M. Power (2020). A review of subtidal kelp forests in Ireland: from first descriptions to new habitat monitoring techniques. *Ecology and Evolution* 00:1-14 doi.org/10.1002/ece3.6345

**Schoenrock, K.M.\***, A.M. O'Connor#, J. Nieva, S. Mauger, E. Serrão, M. Valero, S.A. Krueger-Hadfield\* (2020). Genetic diversity of a marine foundation species, *Laminaria hyperborea* (Gunnerus) Foslie, along the coast of Ireland. *European Journal of Phycology,* 55(3): 310-326. *10.1080/09670262.2020.1724338*

J. Edward Schofield\*, Danni M. Pearce, Douglas, W.F. Mair, Brice R. Rea, James M. Lea, Nicholas Kamenos, **Kathryn M. Schoenrock**, Iestyn D. Barr, and Kevin J. Edwards (2019). Pushing the limits: palynological investigations at the margin of the Greenland Ice Sheet in the Norse Western Settlement. Environmental Archaeology. DOI: 10.1080/14614102.2019.1677075

**Schoenrock, K.M.**\*, T. O'Callaghan, R. O'Callaghan, and S.A. Krueger-Hadfield (2019). First record of non-native *Laminaria ochroleuca* Bachelot de la Pylaie in Ireland found in Béal an Mhuirthead, County Mayo. Marine Biodiversity Records. DOI: 10.1186/s41200-019-0168-3

**Schoenrock, K.M.**\***,** J. Vad, A. Muth, D.M. Pearce, B.R. Rea, J.E. Schofield, and N.A. Kamenos (2018). Biodiversity of kelp forests and coralline algae habitats in southwestern Greenland. Diversity, 10(4): 117. doi.org/10.3390/d10040117

Hofmann, L.\*, **K. Schoenrock,** D. de Beer (2018). Arctic coralline algae elevate surface pH and carbonate in the dark. Frontiers in Plant Sciences, 9:1416. Doi: 10.3389/fpls.2018.01416

**Schoenrock, K**.**M.\***, M. Bacquet#, N.A. Kamenos, D.M. Pearce, B.R. Rea, J.E. Schofield, J. Lea, and D. Mair (2018). Influences of salinity on the physiology and distribution of the Arctic coralline algae, *Lithothamnion glaciale* Kjellman (Corallinales, Rhodophyta). Journal of Phycology, doi: 10.1111/jpy.12774

Pearce, D.M.\*, D. Mair, B.R. Rea, E. Schofield, J. Lea, N. Kamenos, and **K. Schoenrock** (2018). The glacial geomorphology of upper Godthåbsfjord (Nuup Kangerlua) in south-west Greenland. Journal of Maps. Vol 14 (2): 45-55.

Schram, J.B.\*, **K.M. Schoenrock,** J.B. McClintock, C.D. Amsler, and R.A. Angus. (2017) Ocean warming and acidification alter Antarctic macroalgal biochemical composition but not amphipod grazer feeding preferences. Marine Ecology Progress Series, 581:45-56

Schram, J.B.\*, **K.M. Schoenrock**, J.B. McClintock, C.D. Amsler and R.A. Angus. (2016) Seawater acidification more than warming presents a challenge for two Antarctic macroalgal-associated amphipods. Marine Ecology Progress Series, 554:81-97

Schram, J.B.\*, M.O. Amsler, C.D. Amsler, **K.M. Schoenrock**, J.B. McClintock, and R.A. Angus. (2016) Antarctic crustacean grazer assemblages exhibit resistance following exposure to decreased pH. Marine Biology, 163: 106. DOI 10.1007/s00227-016-2894-y

**Schoenrock, K.M.\***, J.B. Schram, C.D. Amsler, J.B. McClintock, R.A. Angus, and YK Vohra. (2016) Climate change confers a potential advantage to fleshy Antarctic crustose macroalgae ove calcified species. Journal of Experimental Marine Biology and Ecology, 474: 58-66.

Schram, J.B.\*, **K.M. Schoenrock**, J.B. McClintock, C.D. Amsler and R.A. Angus (2015).Testing Antarctic resilience: the effects of elevated seawater temperature and decreased pH on two gastropod species. ICES Journal of Marine Science. DOI: 10.1093/icesjms/fsv233.  529-536

Schram, J.B.,\* **K.M. Schoenrock**, J.B. McClintock, R.A. Angus, and C.D. Amsler. (2015) Multi-frequency observations of seawater carbonate-chemistry on the central coast of the western Antarctic Peninsula. Polar Research, 34, 25582. DOI: 10.3402/polar.v34.25582.

**Schoenrock, K.M.\***, C.D. Amsler, J.B. McClintock, and B.J. Baker. (2015) A comprehensive study of Antarctic algal symbioses: minimal impact of endophyte presence in most species of macroalgal hosts. European Journal of Phycology. 50 (3). 271-287. DOI:10.1080/09670262.2015.1031189

**Schoenrock, K.M.\***, C.D. Amsler, J.B. McClintock, B.J. Baker. (2015) Life history bias in endophyte infection of the Antarctic rhodophyte, *Iridaea cordata*. Botanica Marina, 58 (1). 1-8. DOI [10.1515/bot-2014-0085](http://dx.doi.org/10.1515/bot-2014-0085)

**Schoenrock, K.M.\***, J.B. Schram, C.D. Amsler, J.B. McClintock, and R.A. Angus. (2014) Climate change impacts on over-story *Desmarestia* spp. from the western Antarctic Peninsula. Marine Biology, 162 (2): 377-389. DOI 10.1007/s00227-014-2582-8

Schram, J.B.\*, **K.M. Schoenrock**, J.B. McClintock, C.D. Amsler, R.A. Angus. (2014). Multiple stressor effects of near future elevated seawater temperature and decreased pH on righting and escape behaviors of two common Antarctic gastropods. Journal of Experimental Marine Biology and Ecology, 457: 90-96

**Schoenrock, KM.\***, C.D. Amsler, J.B. McClintock, and B.J. Baker (2013). Endophyte presence as a potential stressor on growth and survival in Antarctic macroalgal hosts. Phycologia, 52: 595-599

O’Leary, J.K.\*, D. Potts, **K. Schoenrock**, T. McClanahan (2013). Fish and sea urchin grazing opens settlement space equally but urchins reduce survival of coral recruits. Marine Ecology Progress Series, 493: 165-177

***Policy Documents***

Kelly-Quinn M.\*, Christie M., Bodoque J.M., **Schoenrock K.** (2021) Ecosystem Services Approach and Natures Contributions to People (NCP) Help Achieve SDG6. In: Leal Filho W., Azul A.M., Brandli L., Lange Salvia A., Wall T. (eds) Clean Water and Sanitation. Encyclopedia of the UN Sustainable Development Goals. Springer, Cham. <https://doi.org/10.1007/978-3-319-70061-8_147-1>

Mary Kelly-Quinn\*, Michael Christie,José María Bodoque del Pozo, and **Kathryn Schoenrock** (2020). The integration of the ecosystem services approach into policy & practice is key for the sustainable management of aquatic resources.

**Awards and Funding**

**2020** Irish Research Council Early Career Researcher of the Year

**2019** Best student presentation, Aisha O’Connor, South Eastern Phycological Colloquy

**2014** Outstanding Ph.D. Student in the Department of Biology, UAB

**2011** Outstanding Masters Student in the Department of Biology, UAB

***Research funding Total: $504,273.37***

**BPS** Project Awards “Metabarcoding bedrock in kelp forest communities in an **2020**

attempt to describe macroalgal spore banks.” £5000.00 K. Schoenrock

**ASSEMBLE Plus transnational access** “Genetic diversity of Irish kelp (*Laminaria* **2019**

*hyperborea*) from a European View” ~ €1200

**Environmental Protection Agency** WATER JPI-TAP, KelpRes: the Diversity and **2018**

Resilience of kelp ecosystems in Ireland. €249,156.97

**Marine Research Programme Networking & Travel Grants** "A study in ochre: genetic diversity of *Laminaria hyperborea* forests along the Irish coastline" ~ €1200

**British Phycological Society (BPS)** studentship Aisha O'Connor "A study in ochre: genetic

 diversity of *Laminaria hyperborea* forests along the Irish coastline" ~ £2500

**Divers Alert Network (DAN) Oxygen Grant**- DAN America Oxygen kit for Dive Safety ~ $500

**FONDECYT Postdoctorado competition** “Epibacterial function in the **2017**

distribution and physiology of *Macrocystis pyrifera* across a latitudinal gradient”,

rejected by K. Schoenrock in favour of IRC government postdoctoral researcher.

**Irish Research Council 2016 Postdoctoral fellowship** “Closing the knowledge gap on **2016**

 kelp forest ecology” €91,790.00

**Marine Institute, Ireland** ‘Marine Medicines from the Irish Deep’ National Research

Vessels Ship-time Program (PI Dr. Ryan Young) - €80,000

**Marine Alliance for Science and Technology for Scotland (MASTS)** Small Grants

 Scheme- “A pan-Arctic assessment of biodiversity and ecosystems services

provided by coralline algae reefs”- £557.50

**Scottish Alliance for Geoscience, Environment and Society (SAGES)** “PECRE

Exchanges with Europe, North America, China, India” - £2000

**Federation of European Microbiological Societies (FEMS)** Research grant

"Epibacterial community function in the physiology of polar coralline

algae" - €1800

**University of Glasgow** Research Enabling Fund - £585.65 **2015**

**BPS** Small Grants Award - £298 **2014**

 *\*\*The Phycologist* (2015). The identification of cryptic marine algal

species from the western Antarctic Peninsulas. no.88: 40

**Phycological Society of America (PSA)** Grant in Aid of Research, Molecular **2013**

Identification of Cryptic Antarctic Macroalgae - $1373

**Sigma Xi** Grant in Aid of Research, XRD analysis of CCA cell walls - $640 **2011**

**PSA** Grant in Aid of Research, Influences of chemical constituents produced by

crustose coralline algae on benthic community structure along the western

Antarctic Peninsula. -$1500

***Travel funding Total: $14,307.39***

**Marine Research Programme Networking & Travel Grants** – ESD €743 **2020**

**MSCA proposal writing workshop**, Cardiff, Wales - €800 **2018**

**Marine Research Programme Networking & Travel Grants** - PSA €1200

**Phycomorph-COST** workshop and training school - €600 **2017**

**Marine Research Programme Networking & Travel Grants** - IPC €750

**Marine Research Programme Networking & Travel Grants** - EGU €750

**Gordon Research Seminar** ‘Unifying Ecology Across Scales’, travel award - $400 **2016**

**FEMS** meeting attendance grant - €500

**University of Glasgow Conference Support** - £400 **2015**

**BPS** student travel bursary - £626.49 **2014**

**UAB** Evelyn M. and Harold C. Martin Endowed Fund for Travel in **2013**

Biology - $1,995.03

**PSA** Hoshaw Travel Award - $1000

**UAB** Department of Biology Travel Grant - $400

**UAB** Graduate Student Association Travel Grants - $800 **2012**

**American Academy of Underwater Scientists (AAUS)** Kevin Flannigan

Award - $1300

**PSA** Hoshaw Travel Award - $1100 **2011**

**UAB** Dan Jones Scholarship - $800 **2010**

**Invited Talks**

Marine Society NUI Galway, International Women in Science Day event **2020**

“Around the world for Science Diving- 18 short years of research

underwater”

Department of Zoology, NUI Galway “Kelp forests of Ireland: distribution, **2019**

diversity, productivity and resilience to change”

CCMAR, “Irish kelp forest ecology”

Department of Zoology, Trinity College Dublin,“Irish kelp forest ecology”

Israel Institute of Oceanography and Limnological Research “Irish kelp

forest ecology”

Byrnes Lab, University of Massachusetts "Kelp forest ecology in the Northeast **2018** Atlantic"

NUI Galway Summer School "Kelp forest ecology in Ireland"

Field work meeting group, NUI Galway "Field methodologies in kelp

forest ecology"

Botany Department, NUI Galway “Bi-polar seaweeds” **2016**

Guest Lecturer in Ecology, UAB  **2015**

Guest Speaker in Phycology, UNCW  **2013**

*Oral Presentations* **♠** indicates presenter

**PSA 2022** “A picture of kelp ecosystem resilience in Ireland” K.M. Schoenrock**♠**, K.M. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, S.A. Krueger-Hadfield, A.M. Power.

**European Science Diving 2021** “Diving in Ireland: HSA regulations drive compliance and further training in Irish Scientific Diving” K.M. Schoenrock**♠** and M.D. Edwards

**International Phycological Congress (IPC) 2021** “A picture of kelp ecosystem resilience in Ireland”

K.M. Schoenrock**♠**, K.M. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, S.A. Krueger-Hadfield, A.M. Power.

**British Phycological Society (BPS) 2021** “A picture of kelp ecosystem resilience in Ireland” K.M. Schoenrock**♠**, K.M. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, S.A. Krueger-Hadfield, A.M. Power.

**Western Society of Naturalists (WSN) 2020** “Kelp forest ecology facilitated by citizen science in Ireland” K.M. Schoenrock**♠**, K.M. Chan, T. O’Callaghan, R. O’Callaghan, A. Golden, S.A. Krueger-Hadfield, A.M. Power.

**BPS 2020** “Kelp forests of Ireland: distribution, diversity, productivity and resilience to change.” Kathryn M. Schoenrock**♠**, Kenan M. Chan, Stacy A. Krueger-Hadfield, Jessica Adams, Aaron Golden, Tony O’Callaghan, Rory O’Callaghan, Julie B. Schram, Aaron Galloway, Aisha M. O’Connor, Jessica J. Ratcliff, Dagmar B. Stengel, and Anne Marie Power

**South Eastern Phycological Colloquy (SEPC) 2019** “Genetic diversity of a marine foundation species Laminaria hyperborea (Gunnerus Foslie, along the west coast of Ireland” K.M. Schoenrock, A.M. O’Connor**\***, S.A. Krueger-Hadfield **\*Best student talk award**

**PSA 2019** “PRELIMINARY ASSESSMENT OF ANTARCTIC CORALLINE ALGAE (CORALLINOPHYCIDAE, RHODOPHYTA) BASED ON DNA SEQUENCING, INCLUDING SEQUENCING OF TYPE SPECIMENS” P. Gabrielson**♠**, K. Schoenrock, M. Amsler, C. Amsler, M. Guillemin, J. Hughey, L. Le Gall, V. Pena, S. Heiser, J. Hall-Spencer, P. Horta.

**PSA 2019** “THE FUTURE OF CALCIFYING RED ALGAE IN THE LEVANTINE BASIN: NON-NATIVE VS NATIVE AND HAPLOID VS. DIPLOID RESPONSES TO CLIMATE CHANGE” K. Schoenrock**♠**, G. Rilov, and S. Krueger-Hadfield

**BPS 2019** “Wee scunner or marine stunner? Making kelp great again” K.M. Schoenrock **♠**, Rory O’Callaghan, Tony O’Callaghan, and D.B. Stengel

**Irish Algal Researchers Conference, 2018** “Multiple measures of kelp forest productivity in western Ireland”K.M. Schoenrock **♠**, and D.B. Stengel.

**PSA-ISOP 2018,** "With a little kelp from my friends: Beasts that utilise Irish kelp forests and the multifaceted ways that kelps structure these emerald seas." K.M. Schoenrock**♠**, and D.B. Stengel

**PSA-ISOP 2018**, lightning talks "Sweet as… Irish kelp." K.M. Schoenrock**♠**, and J.A. Adams

**VI International Rhodolith Workshop, 2018**. "A comparison of bacterial diversity and function in the maerl *Lithothamnion glaciale* Kjellman (Corallinales, Rhodophyta) from southwestern Greenland." K. Schoenrock**♠**, K. Matterson, L. Hofmann, D. de Beer, N. Kamenos, D. Pearce, B. Rea, J.E. Schonfield, J. Lea and D. Mair

**Ryan Institute Research Days, NUI Galway 2018.** "Closing the knowledge gap on Irish kelp forest ecology" K.M. Schoenrock**♠** and D.B. Stengel

**BPS 2018** "A study in ochre: kelp forest productivity in Ireland"K.M. Schoenrock**♠**, and D.B. Stengel

**American Geosciences Union (AGU), 2017.** "Rapid advance and retreat over centennial/millennial timescales at Kangiata Nunaata Sermia, SW Greenland- implications for modelling and behaviour of tidewater glaciers." James Lea**♠**, Douglas WF Mair, Brice R Rea, James Schofield, Nicholas Kamenos, Danni Pearce, and Kathryn M. Schoenrock

**Crossing the kingdoms: seaweed substances and interaction with the bacteria that promote seaweed growth, Phycomorph COST workshop 2017** “Epibacterial diversity and function in the physiology of a polar coralline algae” K.M. Schoenrock**♠**, K.O. Matterson, L.C. Hofmann

**IPC 2017**“Rhodoliths maintain elevated surface pH and carbonate ion concentrations” L.C. Hofmann**♠**, K.M. Schoenrock, D. De Beer, C. Olive, and J. Silva

**IPC 2017** “Function and diversity of the epiphytic bacterial community on the Arctic maerl, *Lithothamnion glaciale*” K.M. Schoenrock**♠** and K.O. Matterson

**PSA 2017** "A biodiversity assessment of kelp forest and coralline algae habitats in southwestern Greenland." Kathryn M. Schoenrock**♠** and Arley Muth

**European Geosciences Union (EGU) 2017 - “**A millennial-scale record of tidewater glacier advance and retreat, SW Greenland.” Danni Pearce**♠**, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos, Kathryn Schoenrock, and Lukasz Stachnik

**BPS 2017** "Epibacterial Community Function in the Physiology of Polar Coralline Algae" Kathryn Schoenrock**♠,** Kenan Matterson, and Laurie Hofmann

**Gordon Research Seminar (GRS) ‘Unifying Ecology Across Scales’ 2016** "Epibacterial Community Function in the Physiology of Polar Coralline Algae" Kathryn Schoenrock**♠,** Kenan Matterson, and Laurie Hofmann

**Society for Integrative & Comparative Biology (SICB) 2016** “Seawater acidification rather than warming is a significant challenge for two common Antarctic macroalgal-associated amphipods” J. B. Schram**♠**, K.M. Schoenrock, J.B. McClintock, C.D. Amsler, and R.A. Angus.

**Scientific Committee on Antarctic Research (SCAR) 2014** Oral presentation “Antarctic Algae in the Anthropocene” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**Joint Aquatic Sciences Meeting (JASM) 2014** “Antarctic Algae in the Anthropocene” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**Benthic Ecology Meeting (BEM) 2014** “A matter of taste: Impacts of elevated seawater temperature and decreased pH on feeding choices of an Antarctic amphipod for chemically deterrent macroalgae.” Schram, Julie B**♠**; Amsler, Margaret O.; Amsler, Charles D.; McClintock, James B.; Angus, Robert A.; Schoenrock, Kathryn M.

**Graduate Student Research Days, UAB 2014** “Title: Impacts of elevated pCO2 and seawater temperature on feeding choices of an Antarctic amphipod.” Schram, Julie B**♠**; Amsler, Margaret O.; Amsler, Charles D.; McClintock, James B.; Angus, Robert A.; Schoenrock, Kathryn M.

**SEPC 2013** “Climate change impacts on Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**IPC 2013** “Change you can believe in: Climate change impacts on Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**Western Society of Naturalists (WSN) 2012** “An investigation of endophyte effects on macrophyte host physiology along the western Antarctic Peninsula” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**SEPC 2012** “An investigation of endophyte effects on macrophyte host physiology along the western Antarctic Peninsula” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**Phycological Society of America (PSA) 2012** “An investigation of endophyte effects on macrophyte host physiology along the western Antarctic Peninsula” Kathryn M. Schoenrock⸙, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**PSA 2011** “The impact of endophyte presence on growth and survival of Antarctic macroalgae (Rhodophyta)” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**WSN 2010** “The effect of endophyte infection on growth and survival in Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**SEPC 2010** “The effect of endophyte infection on growth and survival in Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

*Poster presentations*

**BPS 2020 “**The diversity and resilience of kelp ecosystems in Ireland” Kathryn M. Schoenrock, Kenan M. Chan**♠**, Aisha O’Connor, Tony O’Callaghan, Rory O’Callaghan, Stacy Krueger-Hadfield, Aaron Golden, and Anne Marie Power

**AAUS 2019** “The diversity and resilience of kelp ecosystems in Ireland” Kathryn M. Schoenrock, Kenan M. Chan**♠**, Aisha O’Connor, Tony O’Callaghan, Rory O’Callaghan, Stacy Krueger-Hadfield, Aaron Golden, and Anne Marie Power

**EPC 2019** “A study in ochre: genetic diversity of *Laminaria hyperborea* forests along the Irish coastline” A.M. O’Connor, K.M. Schoenrock, and S.A. Krueger-Hadfield**♠**.

**EMBS 2019** “THE DIVERSITY AND RESILIENCE OF KELP ECOSYSTEMS IN IRELAND” K. Schoenrock**♠**, K. Chan, A. O’Connor, S. Krueger-Hadfield, A. Golden, A.M. Power

**PSA 2019** “THE DIVERSITY AND RESILIENCE OF KELP ECOSYSTEMS IN IRELAND” K. Schoenrock**♠**, K. Chan, A. O’Connor, S. Krueger-Hadfield, A. Golden, A.M. Power

**RIRD 2019** “THE DIVERSITY AND RESILIENCE OF KELP ECOSYSTEMS IN IRELAND” K. Schoenrock**♠**, K. Chan, A. O’Connor, S. Krueger-Hadfield, A. Golden, A.M. Power

**BPS 2019** “A study in ochre: genetic diversity of *Laminaria hyperborea* forests along the Irish coastline” A.M. O’Connor**♠**, K.M. Schoenrock, and S.A. Krueger-Hadfield.

**Biogeochemistry Workshop, Marine Institute, 2018.** "Kelp forests in Irelands coastal systems." K. Schoenrock**♠** and D.B. Stengel

**Ryan Institute Research Days, NUI Galway 2018.** "Kelp! I need somebody! *Laminaria hyperborea* forests host diverse faunal assemblages at multiple scales" K.M. Schoenrock**♠** and D.B. Stengel

**BPS 2018** "Kelp! I need somebody! *Laminaria hyperborea* forests host diverse faunal assemblages at multiple scales" K.M. Schoenrock**♠** and D. Stengel

**MASTS Annual Science Meeting 2017** “Effects of biogeochemical change on Arctic primary productivity”. Bonnie Lewis**♠**, Douglas Mair, Brice Rea, Danni Pearce, Kate Schoenrock, & Nicholas Kamenos.

**IPC 2017** “Progress in Irish kelp forest ecology: Insights into productivity and biodiversity of *Laminaria hyperborea* forests” K.M. Schoenrock**♠** and D. Stengel

**PSA 2017** "Irish kelp forests: preliminary measurements of kelp populations and biodiversity." Kathryn Schoenrock**♠** and Dagmar Stengel

**EGU 2017** "Rapid advance, and rapid retreat at Kangiata Nunaata Sermia: potential for long term numerical model validation of Greenland outlet glacier dynamics" Danni Pearce**♠**, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos, Kathryn Schoenrock, and Lukasz Stachnik

**EGU 2017** “Phenology of Lithothamnion glaciale in mixed fjord conditions: mesocosm experiments provide insight to maerl physiology and distribution in southwestern Greenland.” Kathryn Schoenrock**♠,** Marion Bacquet, and Nicholas Kamenos

**EGU 2017-** “Marine algae inform past calving rates of a tide water glacier in western Greenland.” Kathryn Schoenrock**♠**, Danni Pearce, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos

**BPS 2017-** “A pan-Arctic assessment of biodiversity and ecosystems services provided by coralline algae reefs” Kathryn Schoenrock**♠** and Arley Muth

**EGU 2016-** “Reconstructing the behavior of a major SW Greenland tidewater glacier over the last millennium.” Danni Pearce**♠**, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos, Kathryn Schoenrock, and Lukasz Stachnik

**Ocean Sciences Conference 2016-** “Marine algae inform past calving rates of a tide water glacier in western Greenland.” Kathryn Schoenrock**♠**,Nicholas Kamenos,Danni Pearce Douglas Mair, Brice Rea, James Schofield, James Lea, and Lukasz Stachnik.

**Scottish Universities Research in Glacial Environments (SURGE) 2015-** “Reconstructing the behaviour of a major SW Greenland tidewater glacier over the last millennium” Danni Pearce**♠**, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos, Kathryn Schoenrock, and Lukasz Stachnik

**IGS Nordic Branch 2015-** “Reconstructing the behaviour of a major SW Greenland tidewater glacier over the last millennium” Danni Pearce**♠**, Douglas Mair, Brice Rea, James Schofield, James Lea, Nicholas Kamenos, Kathryn Schoenrock, and Lukasz Stachnik

**SCAR 2014** “Settlement preferences of marine invertebrate larvae from the western Antarctic

 Peninsula: influences of depth, site and coralline algae” Kathryn M. Schoenrock**♠**, Charles D.

 Amsler, James B. McClintock, and Bill J. Baker

**SCAR 2014** “Multi-frequency observations of carbonate chemistry on the central coast of the

 western Antarctic Peninsula.” Julie B. Schram**♠**, Kathryn M. Schoenrock, James B.

 McClintock, Charles D. Amsler, and Robert A. Angus

**SCAR 2014** “Title: Impacts of elevated pCO2 on macroalgal-invertebrate assemblages of the

 western Antarctic Peninsula” Julie B. Schram**♠**, Kathryn M. Schoenrock, James B.

 McClintock, Charles D. Amsler, and Robert A. Angus

**JASM 2014** “CHEMICAL MEDIATION OF MUTUALISTIC INTERACTIONS BETWEEN MACROALGAE AND MESOGRAZERS STRUCTURE UNIQUE COASTAL COMMUNITIES ALONG THE WESTERN ANTARCTIC PENINSULA.” Charles D. Amsler**♠**, Kathryn M. Schoenrock, Craig F. Aumack, Jill P. Zamzow, Y.M. Huang, James B. McClintock, and Bill J. Baker

**Gordon Research Conference: Ocean Global Change Biology 2014** “Impacts of ocean acidification on an Antarctic marine macroalgal-mesograzer community: insights from a laboratory mesocosm experiment” Schram JB**♠**, Amsler CD, Amsler MO, Schoenrock KM, McClintock JB, Angus RA

**SICB 2014** “Testing the waters: Seasonal seawater carbonate chemistry baseline to inform biological ocean acidification experiments on the western Antarctic Peninsula” Schram, Julie B.**♠**; Schoenrock, Kathryn M.; McClintock, James B.; Amsler, Charles D.; Amsler, Margaret O.; Angus, Robert A.

**IPC 2013** “Phycological Educational Endeavors: Assessing Algal Knowledge in Museums, Zoos, Aquariums, and Herbariums” J. L. Collier**♠**, R. Fitch, J. Jorve, R. Kodner, J. F. Muhlin, and K. Schoenrock

**SICB 2013** “Sub-lethal impacts of ocean acidification and elevated temperature on two molluscs from the western Antarctic Peninsula” Schram, Julie B.**♠**; Schoenrock, Kathryn M.; McClintock, James B.; Amsler, Charles D.; Amsler, Margaret O.; Angus, Robert A.

**WSN 2012** “Climate change impacts on the physiology of calcifying and non-calcifying encrusting Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**SEPC 2012** “SYSTEMATICS OF EPIZOOIC AND EPIPHYTIC NONGENICULATE CORALLINE ALGAE FROM ANTARCTICA.” Ashley Thigpen**♠**, Kate Schoenrock, Chuck Amsler, J. Craig Bailey

**SCAR 2012** “An investigation of the sub-lethal impacts of elevated CO2-induced seawater acidity and temperature on two Antarctic molluskan mesograzers from the western Antarctic Peninsula” Schram JB**♠**, Schoenrock KM, McClintock JB, Amsler CD, Angus RA, Amsler MO

**SCAR 2012** “Climate change impacts on the physiology of calcifying and non-calcifying encrusting Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Julie B. Schram, Charles D. Amsler, James B. McClintock, and Robert A. Angus

**PSA 2010** “The effect of endophyte infection on growth and survival in Antarctic macroalgae” Kathryn M. Schoenrock**♠**, Charles D. Amsler, James B. McClintock, and Bill J. Baker

**Knowledge Exchange and Service**

***Press releases***

“Marine forests are a patchwork of life and opportunity” Irish Times, Alex McMaster **2022**

https://www.irishtimes.com/news/science/marine-forests-are-a-patchwork-of-life-and-opportunity-1.4790036

**“**10 things you should know about seaweed” RTE **2021**

Irish Examiner: https://www.irishexaminer.com/lifestyle/people/arid-40196319.html

IRC award: https://www.youtube.com/watch?v=YSlfgeYNMZ8&feature=emb\_title

IRC award, afloat.ie: <https://afloat.ie/marine-environment/marine-wildlife/item/48627>-nui-galway-marine-ecologist-kelp-expert-awarded-by-irish-research-council

Galway Bay FM, February 17th, 2020 **2020**

Inshore fisheries: “Antarctic seaweeds: there are forests in Antarctica”

Golden kelp: how did the alien seaweed end up in Irish waters? By Michael Viney,

Irish Times.February 15th, 2020 <https://www.irishtimes.com/news/environment/golden-kelp-how-did-the-alien-seaweed-end-up-in-irish-waters-1.4163864>

Inshore fisheries “Kelp: the multifaceted monarch of marine forests” **2019**

RTE program, Philip Boucher-Hayes“Hot Air: Irelands Climate Crisis” 12,

November 2019

Irish examiner 6/8/2019[https://www.irishexaminer.com/breakingnews/ireland /swimmers-and-kayakers-on-lookout-for-golden-kelp-941974.html](https://www.irishexaminer.com/breakingnews/ireland%20/swimmers-and-kayakers-on-lookout-for-golden-kelp-941974.html)

Afloat.ie 6/8/2019 <https://afloat.ie/marine-environment/marine-science/item/43605-appeal-to-citizen-marine-scientists-for-more-sightings-of-rare-golden-kelp>

Biodiversity Ireland, June 18th, 2019<http://www.biodiversityireland.ie/golden-kelp-ireland/>

Mayo Advertiser May 24th, 2019 “First record of Golden Kelp in Bellmullet” <https://www.advertiser.ie/mayo/article/107941/first-record-of-golden-kelp-in-belmullet>

Irish Times article May 19, 2019 ”Scientists puzzled by arrival of invasive seaweed in Co Mayo” <https://www.irishtimes.com/news/ireland/irish-news/scientists-puzzled-by-arrival-of-invasive-seaweed-in-co-mayo-1.3897500>

Podcast interview on Irish kelp forests "Cool Science and Curious minds" **2018**

Silicon Republic: https://www.siliconrepublic.com/innovation/scientist-unsung-heroes

Silicon republic: https://www.siliconrepublic.com/innovation/kathryn-schoenrock-nuigalway

Soapbox Science:<http://soapboxscience.org/need-talk-kelp-meet-kate-schoenrock/>

CALVE documentary: <https://www.alexingle.com/portfolio/> **2017**

Antarctic Sun: <https://antarcticsun.usap.gov/science/contenthandler.cfm?id=2636> **2012**

Antarctic Sun: <https://antarcticsun.usap.gov/features/contenthandler.cfm?id=2455> **2011**

Antarctic Sun: <https://antarcticsun.usap.gov/science/contentHandler.cfm?id=2124> **2010**

***Outreach***

Seasearch Ireland algae, kelp forest ecology workshop **2022**

Seasearch Ireland kelp forest ecology workshop **2021**

Seasearch Ireland algae workshop: <https://www.youtube.com/watch?fbclid=IwAR0o2SM5OgxF24M8f40Y9OOonqO_jvI3WR3VhWhzj-PWK_k54v-JP5dtHh0&v=TU8ql4e4sSg&feature=youtu.be>

Environmental Sciences Association of Ireland webinar speaker “KelpRes: **2020**

Working with citizen scientists to better understand marine habitats,

especially kelp forests in Ireland.”

Irish Ocean Literacy Network, AQUATAP-ES objectives and survey

Seasearch kelp forest ecology course with KelpRes, June 21st, 2020

Seasearch algae ID course, June 13th, 2020

“Kelp forest ecology and scientific diving” Dive Ireland 2020, Limerick, IE

Ocean Research & Conservation Ireland, Marine Biologist Mondays “Kelp forests in Ireland” https://www.orcireland.ie/meet-a-marine-biologist

PubhD talk, “Irish kelp forests and ecosystem services” Massimos, Galway IE **2019**

Save our Kelp Forests event, Bantry Bay

“Kelp forest ecology in Ireland” Aisha O’Connor and Kathryn Schoenrock, Seasearch Ireland presentation at Dive Ireland 2019, Tipperary

CareersZone participant: www.imascientist.uk.org **2018**

Soapbox Science, Galway IE

Kelp Forest Mural, Galway Atlantaquaria: https://www.nationalaquarium.ie/news--events.html

SeaSearch algae ID course: https://www.facebook.com/seasearchireland/

I'm a Scientist, Get Me out of Here! Ireland, SFI. **2017**

“Diving in Antarctica: Frozen beasts and where to find them” NUI Galway

sub-aqua club, CFT

“The hidden communities of maerl beds and kelp forests” Galway Science & **2016**

Technology Festival

Pint of Science “Bipolar Seaweeds”, Glasgow Scotland

Glasgow Science Festival, LevelUpHuman Science Comedy podcast: http://leveluphuman.com/

Greenland Institute of Natural Resources- Preserved maerl and biodiversity samples provided with a poster for public outreach events.

“Meet the Expert” at the Glasgow Science Museums Biology week **2015**

The Algae and Antarctica- Our Lady of the Valley Daisy Troop (Pelham, Alabama) **2014**

Phycology and Antarctic Marine Science- St. James Catholic School **2013**

(San Francisco, CA)

UAB in Antarctica blog: http://www.uab.edu/antarctica

Educational video conference from Antarctica- Watsonville High (Watsonville, CA)

Educational video conference from Antarctica- Sherman Elementary (San Francisco, CA)

Educational video conference from Antarctica- State College Area High School (State College, PN)

Educational video conference from Antarctica- Sherman Elementary **2012**

(San Francisco, CA)

Educational video conference from Antarctica- Ravenswood Girls School (Sydney, AUS)

UAB in Antarctica blog: <http://www.uab.edu/antarctica> **2010**

**Research Collaborations**

**Since 2020 ASSEMBLE Plus Transnational Access** Dr. Nadine Schubert (CCMAR) “Atlantic RHODOlith beds: The influence of LATitude on net primary and carbonate production”

 **ASSEMBLE Plus Transnational Access** Dr. Lydia Bach (University of Glasgow) “Role of environmental context in adaptation to climate change – coralline algae as study systems.”

 **JPI WATER** Anna Kuparinen, Irish kelp forest food web models

**Since 2019 ASSEMBLE Plus Transnational Access** Dr. Joao Nieva, Serrao Lab (CCMAR). “Genetic Diversity of Irish Kelp (*Laminaria hyperborea)* from a European View(**KEuVie**)”

**ASSEMBLE Plus Transnational Access** Dr. Arjun Chennu (Max Planck Institute for Marine Microbiology) “Underwater hyperspectral surveying for automation of benthic biodiversity analysis of shallow European ecosystems.”

**Since 2018** Population genetics of *Laminaria* spp. along the coast of Ireland, Dr Stacy Krueger-Hadfield, UAB

Protein and fatty acids in marine algae, Dr Julie Schram, Oregon Institute of Marine Biology

 Carbohydrate production in *Laminaria* spp., Dr Jessica Adams, IBERS Gogerddan, Aberystwyth University

**Since 2015** Marine terrestrial interactions in sub-Arctic region of Greenland, Dr. Danni Pearce, University of Hertfordshire (formerly at University of Aberdeen).

**Since 2015** Microbial communities on polar coralline algae, Dr Kenan Matterson, Smithsonian

 Institute

**Since 2015** Ecophysiology and adaptations of polar coralline algae, Dr Laurie Hofmann, Alfred

 Wegner Institute (formerly Microsensor Group, Max Planck Institute for Marine Microbiology)

**Since 2009** Species identification of coralline algae (Antarctic, Artic, and Mediterranean regions), Dr Paul Gabrielson University of North Carolina, Chapel Hill

**Scientific Committee and Journal Service**

*Editorial Office*

European Journal of Phycology and Applied Phycology (Taylor and Francis), 2020- present day

*Editor*

Polar Biology

Journal of Marine Science and Engineering, MDPI

*Guest Editor*

Frontiers in Marine Science special edition, "Coralline Algae: Globally Distributed Ecosystem Engineers" and “Coralline algae: past, present, and future prospectives”

*Reviewer*

**Since 2021** Climate Change Ecology

 Microorganisms, MDPI

 Oceanography and Marine Biology Annual Review, MBA

**Since 2020** Diversity and Distributions

Geophysical Research Letters

British Ecological Society

Scientific Reports, Nature

 European Journal of Phycology

**Since 2019** Journal of Applied Phycology

Journal of Experimental Marine Biology and Ecology (JEMBE)

National Science Foundation (NSF)

Science of the Total Environment

Diversity (MDPI)

**Since 2018** Frontiers in Marine Science

Cryptogamie Algologie

**Since 2017** Journal of Sea Research

Photosynthetica

Acta Botanica Brasilica

Marine Biology

**Since 2016** ALGAE

Marine Ecology Progress Series (MEPS)

 National Environment Research Council (NERC)

 Chilean Antarctic Institute (INACH)

 Phycologia

**Since 2015** Polar Biology

**Since 2011** Journal of Phycology

*Society Membership*

**Since 2020** British Ecological Society

**Singe 2019** American Genetics Association

 Royal Geographical Society

**Since 2018** Systematics Association

**Since 2017** European Geosciences Union

**Since 2015** Federation of European Microbiological Societies

Marine Alliance for Science and Technology for Scotland

 Scottish Alliance for Geoscience, Environment and Society

American Society of Limnology and Oceanography

**Since 2013** International Phycological Congress

**Since 2012** British Phycological Society

Scientific Committee on Antarctic Research

**Since 2011** Western Society of Naturalists

**Since 2010** Phycological Society of America

*Committee membership*

**2021-present** CMAS scientific diving regulations committee

**2019-present**  Athena SWAN SAT NUI Galway

 Dive Officer for Scientific Diving, NUI Galway

Dive Control Board, NUI Galway

**2011-present** PSA Education Committee

**2017-2019** Executive Committee, NUIG sub aqua club

**2016- 2018** Co-organizer "Field work group meetings" NUI Galway

**2015-2016** University of Glasgow, School of Geographical and Earth Sciences Athena Swan SAT member and head of the SOC

**2014-2016** PSA Award of Excellence Committee

**2014-2016** PSA Provasoli Award Committee

**2014-2016** Student Representative on PSA Executive Committee

**2013-2014** Seminar Committee, UAB

**2010-2011** Student advisor to the Chair of the Biology Department, UAB

**2009-2011** PSA Archive Committee

**Other Training**

**2022** Inland Boating and Waterways, DBW

 Marine firefighting, DBW

**2021** PC832, Laws of arrest

 HAZWOPER

**2020** ERC Yellow Research Training

**2019** Manual handling, NUI Galway

Fire Safety Training, NUI Galway

 Procurement Training, Agresso, NUI Galway

**2018** Chemical Safety Training, NUI Galway

 Manual Handling Training, NUI Galway

**2016** Trans-awareness in the workplace, University of Glasgow

 Research Ethics, University of Glasgow

**2015** Agresso purchasing training, University of Glasgow

 First Aid in the Workplace, University of Glasgow

**Referees**

***PhD Supervisors***

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Professor and Head of the Center for Drug Discovery and Innovation

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Professor

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CH464 Birmingham, AL 35294

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***Academic Supervisors and Collaborators***

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Dr. Brice Rea

Geography & Environment, School of Geosciences, University of Aberdeen, Elphinstone Road, Aberdeen AB24 3UF, Scotland

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Dr. Anne Marie Power

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NUI Galway, Galway, Ireland

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Phone: (+353) 91 493015

***Science Diving***

William Dent (now retired) Steve Clabuesch (now retired)

Director for Research Integrity & Diving & Boating Safety Program

Compliance at University of South Florida UCSC/LML

Diving Safety Officer 115 McAllister Way

3702 Spectrum Blvd. Suite 155 Santa Cruz, CA 95060

USF Research Park Email: srclabue@ucsc.edu

Tampa, FL 33620 Telephone: +1 831 459 4286

Email: WDENT@usf.edu

Phone: +1 813 974 5018

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