**Dr. Kathryn Schoenrock**

IRC Postdoctoral Fellow, NUI Galway

[Kathryn.schoenrock@nuigalway.ie](mailto:Kathryn.schoenrock@nuigalway.ie), +353(0)876372869

RESEARCH POSITIONS

**2016-present:** Irish Research Council government postdoctoral fellow at NUI Galway

**2015-2016:** Research Associate in Global Marine Change at the University of Glasgow, School of Geographical and Earth Sciences.

**2009-2014:** Graduate Research and Teaching Assistant, University of Alabama at Birmingham

**2007- 2009:** Research assistant and field technician, Potts Lab, University of California, Santa Cruz (UCSC)

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

**2002-2006:** Lab technician and marine mammal trainer, Williams Lab, UCSC

EDUCATION

**2014 Ph.D.** **Biology** University of Alabama at Birmingham “Ecology and physiology of Antarctic macrophytes under the influence of abiotic and biotic stressors”

**2011 M.S. Biology** University of Alabama at Birmingham “The effect of endophyte presence on growth and survival of Antarctic macroalgae”

**2006 B.S. Marine Biology** University of California, Santa Cruz

PROFESSIONAL CERTIFICATIONS

**2018 CFT** club instructor

**2018 Sea Suas** mental health certificate

**2017 ISC** Advanced powerboat certificate

**2016 CFT** diver

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

**2012 NAUI** Dive Master

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

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

**2005 AAUS** scientific diver

EXTERNAL COURSES

**2018** The art of print making

**2017** The Art of Science: Scientific Illustration, European Credit Transfer System

**2017** Mass Spectrometry enabling info-chemicals identification, Phycomorph-COST training school

**2014** Taxonomy, NERC short course, Natural History Museum London

**2013** Aquatic Photosynthesis, Universidad Nacional Autónoma de México

**2013** Primer Workshop, International Phycological Congress 10

**2008** Assessing predation in the marine environment, Friday Harbor Labs UW

TEACHING

**2017-present** Botany lecture, ‘Primary Productivity and Global Change’, NUI Galway

**2016** Lecturer in ‘the Modern World’ Earth Science 2Q: Paleobiology, University of Glasgow

**2016** Lecturer in the ‘Marine Environment’ Earth Science 1Y: Evolution of the Earth, University of Glasgow.

**2011- 14** Teaching Assistant in Human Physiology, UAB. This course is an introduction to human physiology for non-majors and nursing students covering a range of topics from diffusion to the pulmonary system.

**2009-11** Teaching Assistant in Introductory Biology, UAB. This course provides an introduction to Biology covering organic molecules (including gel electrophoresis and PCR), metabolic processes, evolution, ecology, and physiology and taxonomy of all phyla.

**2006** Teaching Assistant in Marine Botany, BIOE 120/L, UCSC.

MENTORING

**2017-2018** Aisha O’Connor, 4th year student in Marine Science, NUI Galway

Aaron McMahon, 4th year student in Marine Science, NUI Galway

Katie Huston, 4th year student in Marine Science, NUI Galway

**2017** Thomas Boudou, MS, University of Bordeaux. "Comparative diversity of kelp holdfasts across sites in western Ireland."

**2016** Johanne Vad, PhD student at Herriot Watt University. Field Assistant in Greenland for 2016 field season.

Catherine Lawrence, Castlemilk High School work experience program

Eiryn Milligan, High School work experience program

Melissa O’Connor, Postgraduate student research assistant identifying marine foraminifera.

Marion Bacquet, Erasmus exchange student from University Quimper on a research project investigating the microbiome, physiology, and environmental tolerance of the polar maerl species *Lithothamnion glaciale*.

**2015-2016** Lukasz Stachnik (Research Assistant) investigated the presence of a sulfur isotope signal in *Clathromorphum compactum* that could determine the age of melt water influencing the fjord habitats in southwest Greenland.

**2013** Undergraduate Mentor at UAB, Biology

INVITED TALKS

**2018** Field work meeting group, NUI Galway "Field methodologies in kelp forest ecology"

**2016** Botany Department speaker, NUI Galway “Bipolar seaweeds”

**2015** Guest Lecturer in Ecology, UAB

**2013** Guest Speakerin Phycology, UNCW

PUBLICATIONS

*Book Chapters*

Salm, J.L., **K.M. Schoenrock**, J.B. McClintock, C.D. Amsler, and B.J. Baker. (*in press*) 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.

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

*Peer-reviewed Journal Articles*

Pearce, D., D. Mair, B. Rea, E. Shofield, 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 over 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. (2015) 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, K**, 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

*Manuscripts*

**Schoenrock, K**.**M.**, M. Bacquet, N.A. Kamenos, D. Pearce, B.R. Rea, J.E. Schofield, J. Lea, and D. Mair. (*in review*). INFLUENCES OF SALINITY ON THE PHYSIOLOGY AND DISTRIBUTION OF THE ARCTIC CORALLINE ALGAE, LITHOTHAMNION GLACIALE KJELLMAN (CORALLINALES, RHODOPHYTA). Journal of Phycology.

Hofmann, L.C., **K.M. Schoenrock,** D. de Beer (*in review*). Arctic coralline algae elevate surface pH and carbonate in the dark. New Phytologist.

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

**Schoenrock K**.**M.**, R. Young, C.D. Amsler, B.J. Baker. The changing metabolomic profile of two canopy-forming macroalgae from the western Antarctic Peninsula in near future marine conditions. (in prep)

**Schoenrock, K**.**M.** and A. Muth. A biodiversity assessment of kelp forest and coralline algae habitats in southwestern Greenland. (in prep)

AWARDS

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

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

FELLOWSHIPS and GRANTS

*Research*

**BPS studentship 2018** Aisha O'Connor "A study in ochre: genetic diversity of *Laminaria*

*hyperborea* forests along the Irish coastline"

**DAN Oxygen Grant 2018-** DAN America Oxygen kit for Dive Safety ~ $500

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

physiology of *Macrocystis pyrifera* across a latitudinal gradient”, rejected by K. Schoenrock

in favor of IRC funding.

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

kelp forest ecology” €91,790.00

**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” 2016- £557.50

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

with Europe, North America, China, India” 2016 - £2000

**FEMS** Research grant "Epibacterial community function in the physiology of polar coralline

algae" 2016- €1800

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

Vessels Ship-time Program, 2016- €80,000

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

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

*The Phycologist* (2015). The identification of cryptic marine algal species from the

western Antarctic Peninsulas. no.88: 40

**PSA** Grant in Aid of Research, Molecular Identification of Cryptic Antarctic Macroalgae, 2013 - $1373

**Sigma Xi** Grant in Aid of Research, XRD analysis of CCA cell walls, 2013- $640

**PSA** Grant in Aid of Research, "Influences of chemical constituents produced by crustose coralline algae on benthic community structure along the western Antarctic Peninsula" 2011 - $1500

*Travel*

**Marine Research Programme Networking & Travel Grants** 2018 - PSA €1200

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

**Marine Research Programme Networking & Travel Grants** 2017 - IPC €750

**Marine Research Programme Networking & Travel Grants** 2017 - EGU €750

**GRS ‘**Unifying Ecology Across Scales’, travel award 2016- $400

**Federation of European Microbiological Societies (FEMS)** meeting attendance grant

2016- €500

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

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

$1,995.03

**PSA** Hoshaw Travel Award, 2013- $1000

**UAB** Department of Biology Travel Grant, 2013 - $400

**UAB** Graduate Student Association (GSA) Travel Grant, 2012 - $400

**UAB** GSA Travel Grant, 2012 - $400

**AAUS** Kevin Flannigan Award, 2012 - $1300

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

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

CONFERENCE PAPERS

*Meeting proceedings*

**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

*Oral*

**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

**British Phycological Society (BPS) 2018** "A study in ochre: kelp forest productivity in Ireland" **K.M. Schoenrock**, 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”

**International Phycological Congress (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.**

**South Eastern Phycological Colloquy (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*

**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

**IPC 2017** “Progress in Irish kelp forest ecology: Insights into productivity and biodiversity of Laminaria hyperborean 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

**2018** CareersZone participant, imascientist.uk.org

Soapbox science, Galway IE

Educational Kelp forest mural at the Galway Atlantaquaria

SeaSearch algae ID course

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

“Diving in Antarctica: Frozen beasts and where to find them” NUI Galway sub-aqua club, CFT

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

Pint of Science “Bipolar Seaweeds”, Glasgow Scotland

Glasgow Science Festival, LevelUpHuman Science Comedy podcast

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

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

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

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

**2012** Educational video conference from Antarctica- Sherman Elementary (San Francisco, CA)

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

**2011** The Antarctic Sun articlehttps://antarcticsun.usap.gov/features/contenthandler.cfm?id=2455

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

SERVICE

*Guest Editor*

Frontiers in Marine Science special edition "Coralline algae"

*Reviewer*

**Since 2017** Journal of Sea Research

Photosynthetica

Acta Botanica Brasilica

Marine Biology

**Since 2016** ALGAE

Marine Ecology Progress Series

NERC

INACH

Phycologia

**Since 2015** Polar Biology

**Since 2011** Journal of Phycology

*Society Membership*

**Since 2018** Systematics Association

**Since 2017** European Geosciences Union

**Since 2015** Federation of European Microbiological Societies

**Since 2015** Marine Alliance for Science and Technology for Scotland

**Since 2015** Scottish Alliance for Geoscience, Environment and Society

**Since 2015** American Society of Limnology and Oceanography

**Since 2013** International Phycological Congress

**Since 2012** British Phycological Society

**Since 2012** Scientific Committee on Antarctic Research

**Since 2011** Western Society of Naturalists

**Since 2010** Phycological Society of America

*Committee membership*

**2016- present** Co-organiser "Field work group meetings" NUI Galway

**2011-present** PSA Education Committee

**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

REFEREES

*Current Mentor*

Dr. Dagmar Stengel

Head of Discipline  
Botany and Plant Science, School of Natural Sciences   
Ryan Institute, National University of Ireland

Galway, Ireland   
Email: [Dagmar.stengel@nuigalway.ie](file:///C:\Users\Kate\Dropbox\UrlBlockedError.aspx)   
Phone: (+353) 91 493192   
Fax: (+353) 91 525005

*Academic*

Dr. Brice Rea

Geography & Environment, School of Geosciences,

University of Aberdeen, Elphinstone Road,

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Dr. Charles Amsler

Professor

University of Alabama at Birmingham

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