

CURRICULUM VITAE

PAUL CARL SIKKEL

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Education

UC San Diego, BA in Biology (Behavior, Ecology, and Evolution) 1985
Oregon State University, MS in Fisheries, 1990
Oregon State University, Ph.D. in Zoology, 1993

Academic Publications (All are field studies: * = undergraduate author, + = graduate student author)

Refereed Journals

- Sikkel**, P.C. 1986. Interspecific cleaning by juvenile salema, *Xenestius californiensis* (Pisces: Haemulidae). *California Fish and Game* 72: 170-172.
- Sikkel**, P.C. 1988. Factors influencing spawning site choice by female garibaldi, *Hypsypops rubicundus*, (Pisces: Pomacentridae). *Copeia* 1988: 710-718.
- Sikkel**, P.C. 1989. Egg presence and developmental stage influence spawning-site choice by female garibaldi. *Animal Behaviour* 38: 447-456.
- Sikkel**, P.C. 1990. Social organization and spawning in the Atlantic sharpnose puffer, *Canthigaster rostrata* (Tetraodontidae). *Environmental Biology of Fishes* 27: 243- 254 .
- Sikkel**, P.C. and Hardison, P.D. 1992. Feeding associations between the goatfish *Mulloides martinicus* and a possible aggressive mimic, the snapper *Ocyurus chrysurus* (Lutjanidae). *Copeia* 1992: 914-917.
- Sikkel**, P.C. 1993. Changes in plasma androgen levels associated with changes in male reproductive behavior in a brood-cycling marine fish. *General and Comparative Endocrinology* 89: 229-237.
- Sikkel**, P.C. 1994. Filial cannibalism in a paternal - caring marine fish: the influence of egg developmental stage and position in the nest. *Animal Behaviour* 47: 1149-1158.
- Sikkel**, P.C. 1994. Why female garibaldi prefer males with young eggs: a test of the parental investment hypothesis. *Ethology Ecology & Evolution* 6: 191-211.
- Alcalay, O.M.* and **Sikkel**, P.C. 1994. Diel periodicity of hatching of demersal eggs in the temperate damselfish, *Hypsypops rubicundus*. *Bulletin of Marine Science* 54: 565-569.
- Knapp, R.A. **Sikkel**, P.C. and Vredenberg, V.T*. 1995. Age of clutches in nests and within-nest spawning site preference of three damselfish species (Pomacentridae). *Copeia* 1995: 78-88.
- Sikkel**, P.C. 1995. Diel periodicity of spawning activity in a permanently territorial damselfish: a test of adult feeding hypotheses. *Environmental Biology of Fishes* 42: 241-251.
- Sikkel**, P.C. 1995. Effects of nest quality on male courtship and female spawning-site choice in an algal-nesting damselfish. *Bulletin of Marine Science* 57: 682-689.
- Sikkel**, P.C. and Petersen, C.W. 1995. Reproductive ecology of damselfishes: Introduction to the symposium. Pages 565-568. *In*: **Sikkel**, P.C. and Petersen, C.W (Eds): Proceedings of the

- Reproductive Ecology of Damselfish Symposium -- *Bulletin of Marine Science* Vol. 57(3)
- Sikkel**, P.C. 1998. The influence of food competitors on mate-search tactics in a territorial marine fish. *Behavioral Ecology* 9: 439-444.
- Sikkel**, P.C., Fuller, C.A. and Hunte, W. 2000. Habitat/sex differences in time at cleaning stations and ectoparasite loads in a Caribbean reef fish. *Marine Ecology Progress Series* 193: 191-99.
- Chambers, S.D. *, and **Sikkel**, P.C. 2002. Diel emergence patterns of ecologically important, fish parasitic, Gnathiid isopod larvae on Caribbean coral reefs. *Caribbean Journal of Science* 38: 37-43.
- Sikkel**, P.C., Cheney, K.L.⁺ and Côté, I.M. 2004. In situ evidence for ectoparasites as a proximate cause of cleaning interactions in marine reef fish. *Animal Behaviour* 68: 241-247.
- Sikkel**, P.C., Herzlieb, S.E.* & Kramer, D.L. 2005. Compensatory cleaner-seeking behavior following spawning in female yellowtail damselfish. *Marine Ecology Progress Series*. 296: 1-11. (**Feature article**).
- Sikkel**, P.C. and Kramer, D.L. 2006. Territory revisits reduce intrusion during spawning trips by female yellowtail damselfish *Animal Behaviour*. 71: 71-78
- Sikkel**, P.C., Schaumburg, C,* Mathenia, J. * 2006. Diel infestation patterns of gnathiid isopod larvae on Caribbean reef fishes. *Coral Reefs*. 25: 683-689.
- Sikkel**, P.C., Nemeth, D., McCammon⁺, A and Williams, E.H. 2009 Habitat/species differences in monogenean loads of free-living sympatric surgeonfishes (Acanthuridae) in the Virgin Islands. *Journal of Parasitology* 95(1):63-68
- Sikkel**, P.C., Ziemba, R.E., Sears, W.* and Wheeler, J*. 2009. Ontogenetic shifts in timing of host infestation by parasitic gnathiid isopod larvae on Caribbean coral reefs. *Coral Reefs* 28:489-495.
- McCammon, A. ⁺, **Sikkel**, P.C., Nemeth, D. 2010. Effects of three Caribbean cleaner shrimps on ectoparasitic monogeneans in a semi-natural environment. *Coral Reefs* 29: 419-426.
- Sikkel**, P.C., Fuller, C.A 2010. Maintenance of kin groups by juvenile black surfperch (*Embiotoca jacksoni*). *Journal of Fish Biology* 76:1671-1681.
- Sikkel**, P.C., Sears, W.T. *, Weldon, B. *, Tuttle, B. C*. 2011. An experimental field test of host-finding mechanisms in a Caribbean gnathiid isopod *Marine Biology* 158: 1075-1083.
- Farquharson, C, Smit, N.J., **Sikkel**, P.C. 2012. Description of a new species of gnathiid (Crustacea, Isopoda, Gnathiidae) from the Caribbean *Zootaxa* 3381: 47-61.
- Sikkel**, P.C., Sikkel, N.M. 2012. Spawning and social organization in Hawai'ian Ambon Toby, *Canthigaster amboienensis*. *Ichthyological Research* 59: 394-395.
- Artim, J.M. ⁺, **Sikkel**, P.C. 2013. Live coral repels a common reef-fish ectoparasite. *Coral Reefs* 32:487-494.
- Coile, A.M., ⁺ **Sikkel**, P.C. 2013. Susceptibility of common Caribbean reef fishes to generalist ectoparasitic gnathiid isopods. *Parasitology*. 140: 888- 896.
- Welicky, R.M., Coile, A.M, McCammon, A., Cheney, K.L., **Sikkel**, P.C. 2013. Lunar periodicity of activity of ectoparasitic gnathiid isopods on Caribbean coral reefs. *Marine Biology* 160: 1607-1617.

Invited book chapters:

- DeMartini, E.E. and **Sikkel**, P.C. (2006) Reproductive Ecology. In: Allen et al. (Eds) The Ecology of Marine Fishes: *California and Adjacent Waters*. University of California Press. <http://www.ucpress.edu/books/pages/10513.html>

Grants and Fellowships (post-doctorate)

1992-94 Friday Harbor Postdoctoral Fellowship 35,000

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| 1995 | NIH MBRS Faculty Enrichment (summer work at UC Berkeley) | 7,000 |
| 1997-99 | Bellairs Postdoctoral Fellowship | 28,000 |
| 2002 | Visiting Scholar Award, University of Technology, Sydney Aus. | 3,000 |
| 2002-04 | Institutional Research and Scholarship awards, Murray State University | 8,000 |
| 2002-04 | Earthwatch Institute (3 annual grants) | 49,000 |
| 2004-08 | Falconwood Corporation | 20,000 |
| 2004 | Visiting Scholar Award, University of Technology, Sydney Aus. | 3,000 |
| 2004-06 | University of Technology Research Excellence Grant (D. Booth, P.Sikkel, W. Figuera) | 20,000 |
| 2005-06 | Virgin Islands NSF EPSCoR | 10,000 |
| 2004-05 | Earthwatch Institute | 18,000 |
| 2006 | Earthwatch Institute | 15,000 |
| 2007-08 | Earthwatch Institute | 64,000 |
| 2008-11 | Falconwood Corporation | 15,000 |
| 2009 | National Science Foundation (MA Hixon, PI, PC Sikkel, Associate Investigator) | 750,000 |
| 2012 | National Science Foundation (P.C. Sikkel, PI) | 299,000 |
| 2013 | Falconwood Corporation | 10,000.00 |
| 2013 | National Science Foundation (<u>Submitted</u> – P.C. Sikkel, PI) | 861,275 |

Teaching Awards and Recognition

University of the Virgin Islands: 1994-97: Rating of “Excellent”

Centre College: 2008 – Awarded two medals during senior Honor Walk for excellence in student mentoring.

2009 – Voted by students as best faculty web story of 2008

2009 - Voted by students as faculty member to be featured in the 2009 “Life Stories” Convocation.

Arkansas State University: 2012: Nominated for Honors Professor of the Year award

2013: Voted as “most interesting” professor (ASU yearbook)

Academic and Community Service

Invited Lectures and Volunteer Activities

1986-Present: Over 50 guest lectures to elementary schools, and academic and non-academic clubs and organizations (e.g., Catalina Elderhostel, NSF Minorities in Marine Science Program, Antilles School, USVI, Cub Scouts); **1999-2000:** Volunteer Educational Assistant - Murray Elementary School
2008: Development of benthic ecology module for elementary and middle school science classes, Culebra Island, Puerto Rico (<http://albums.phanfare.com/coralations/3319354>); featured speaker at Danville Kid’s University (4th grade enrichment program); Sea&Learn, Saba Netherlands Antilles (<http://www.seaandlearn.org/Experts2006.htm>). **2010:** Valley View Middle School: Art and Marine Science; Murray Middle School: Coral Reef Parasites; **2012:** Sea & Learn, Saba, Netherlands Antilles

<http://www.seaandlearn.org/experts.htm>; http://www.youtube.com/watch?v=tr6ixmih_ck

Curriculum Development

- 1994-95 Contributed to development of upper-division, interdisciplinary, course on the natural resources of islands and their management at the University of the Virgin Islands.
- 1995-96 Developed upper-division special-topics course in animal behavior at UVI using inquiry-based teaching techniques.
- 2000 Developed field course in tropical marine biology for the Kentucky Institute for International Studies (KIIS).
- 2003 Attended workshop on marine education in the Caribbean
- 2005-06: Responsible for development of interdisciplinary university academic programs in marine and environmental studies at the Hatfield Marine Science Center (HMSC), Oregon State University. <http://hmsc.oregonstate.edu/classes/2006summer/index.html>
- 2006 Developed freshman studies course on Caribbean natural history (taught in Puerto Rico) for Centre College http://www.centre.edu/web/news/2008/puerto_rico.html
<http://www.centre.edu/web/news/2009/PuertoRico/index.html>
- 2007 Developed 200-level course in marine ecology, Centre College (approved as elective for minor in Environmental Studies)
- 2010-11 Co-developed (lead faculty) minor in marine science, Arkansas State University
- 2013 Co-developed course in human dimensions of natural resource management

Student Mentoring

- 1994-Present *University of the Virgin Islands*: Supervised or co-supervised eight undergraduate independent studies projects in behavior, ecology and evolution.
- 1999-2005 *Murray State University*: Supervisor for seven undergraduate projects on fish and parasite ecology and served on five M.S. thesis committees (A. Benson – Conservation Biology, J. Waller – Water snake ecology, C. Eden – Salamander ecology, J. Doyle – Salamander life history, V. Titus – Snake habitat choice).
- 2002-05 *University of Technology, Sydney, Aus.* Co-supervisor for one Honors project on fish behavior and external reviewer of two doctoral theses.
- 2006 *Minorities in Marine Science Program*, Student Mentor for Ocean Sciences Meeting, Honolulu, HI.
Hatfield Marine Science Center: Faculty mentor/representative for Hatfield Student Organization, Coordinator: NSF, Research Experience for Undergraduates Program, Hatfield Marine Science Center <http://hmsc.oregonstate.edu/news/REUsuccess.html>
Organizer, annual Markham student research symposium
Chair, student scholarship committee
- 2006-09 *Centre College*: Supervised or co-supervised nine undergraduate research projects (including one leading to student Fullbright Award to study fish parasitology in France); served on committee for four environmental studies theses and one self-designed major; awarded two “Walk of Honor” medals for student mentoring. Advisor for two student internships working with the coral conservation NGO CORALations (www.coralations.org) in Puerto Rico
- Florida Atlantic University*: M.S. thesis co-advisor for A. McCammon (shrimp-anemone)

symbiosis)
Auburn University: M.S. Thesis committee, Lindsay Heubner (Fish, shrimp, anemone symbiosis)

2009 -Present: *Arkansas State University*: Ph.D. advisor for R. Welicky, J. Artim, and A. McCammon; Ph.D. co-advisor for L. Tuttle (Oregon State University), and M.S advisor for A.M. Coile, L. Renoux, J. Salinger, and W. Jenkins: Parasite-host interactions in Caribbean coral reef fishes. Mentor for 8 undergraduates supported by the NSF URM program, and McNair Scholars Program. Serve on 6 additional M.S. and 2 Ph.D. committees.

Professional Societies

Association of Marine Laboratories of the Caribbean
International Society for Reef Studies
International Society for Conservation Biology

Professional Activities

Symposia Organized:1994 *Principal Organizer*: American Society of Ichthyologists and Herpetologists Symposium on the Reproductive Ecology of Damselfishes, Los Angeles, CA

Editorial Experience: *Co-Editor* (w/ C. W. Petersen) for peer-reviewed proceedings of the Symposium on the Reproductive Ecology of Damselfishes: *Bulletin of Marine Science* 1995 : 57(3)

Reviewer for Journals (average of 10 reviews per year over past 5 years): *Animal Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Bulletin of Marine Science, Copeia, Current Biology, Ecology, Environmental Biology of Fishes, Evolution, Journal of Animal Ecology, General and Comparative Endocrinology, Journal of Fish Biology, Marine Biology, Marine Ecology Progress Series, Journal of Experimental Marine Biology and Ecology, Biological Bulletin of the Linnean Society, Ecology Letters, Journal of the Marine Biological Association of the UK, Coral Reefs, Proceedings of the Royal Society of London, Comparative Parasitology, Reviews in Fish Ecology and Fisheries*

Grant Proposals Reviewed (average of 3 proposals per year over past 5 years):*Australian Research Council, Natural Environment Research Council (United Kingdom), Earthwatch Institute, National Geographic Society, National Oceanic and Atmospheric Administration - Sea Grant and NURP, National Science Foundation, Austrian Science Foundation*

Scientific Consulting

Japanese Broadcasting Corporation – Consultant for documentary on marine life of Santa Catalina Island.

State of California - Consultant for legislation concerning the protection of garibaldi damselfish in southern California.

Government of the Virgin Islands – Expert witness for the potential effects of a proposed emergency housing development on a population of endangered snake.

Aquarium of the Pacific - Consultant for captive rearing of garibaldi damselfish

Invited Institutional Seminars and Symposium Presentations

1995-Present

1995 *Department of Integrative Biology, University of California, Berkeley,*

National Zoological Park, Smithsonian Institution,

Symposium on the Ethology of Coral Reef Fishes: International Ethological Conference,

Honolulu, HI

- 1997 *Department of Biology, University of Texas, El Paso*
2000 *Dept. of Biology, Murray State University*
2001 *Dept. of Biology, University of Memphis*
2002 *Dept. of Environmental Sciences, University of Technology, Sydney Aus.*
Earthwatch Institute Conference, Boston, MA
2003 *Symposium on the Ecology of California Marine Fishes, Long Beach, CA*
2004 *Earthwatch Institute Conference, Boston, MA*
2006 *Oregon Institute for Marine Biology, Charleston, Oregon*
50th Anniversary Symposium: Science in the Virgin Islands National Park, St. John, USVI.
2007 *Invited to organize symposium on fish cleaning symbiosis, Boston, MA (declined due to prior commitments)*
2008 *Dept. of Biology, Long Island University, Long Island, New York*
2009 *Dept. of Biology, Auburn University, Auburn, AL*
Symposium on Lionfish Invasion, International Conference on Marine Bioinvasions, Portland, OR, August, 2009
Sea and Learn 2009 - Saba, Netherlands Antilles (<http://www.seaandlearn.org/experts.htm>)
2010 *Dept. of Biology, University of Memphis, Memphis TN*
Dept. of Environmental Science, University of San Diego
2011 *Division of Science and Mathematics, University of the Virgin Islands*
Coral Reef Triangle Partnership for International Research and Education Symposium, Silliman University, Dumaguete Philippines
Symposium on lionfish invasion: International Marine Conservation Congress, Victoria, Canada
International Symposium on Aquatic Parasites, Beijing, China (could not attend due to work in the Philippines).
Department of Biology, University of Tulsa, Tulsa, OK
2012 *Department of Marine and Environmental Science, University of Technology, Sydney Australia*
Department of Biology, University of Mississippi, Oxford, MS.
Sea and Learn 2012 - Saba, Netherlands Antilles (<http://www.seaandlearn.org/experts.htm>) ; http://www.youtube.com/watch?v=tr6ixmih_ck
2013 *Department of Zoology, North-West University, Potchefstroom South Africa*

Contributed Papers (past 5 years)

- 2007 *Gulf and Caribbean Fisheries Institute, Dominican Republic*
Association of Marine Laboratories of the Caribbean, St. Thomas, USVI
2008 *International Coral Reef Symposium, Ft. Lauderdale, FL*
2010 *IsoEcol (Isotopes in Ecology), Anchorage, Alaska*
2011 *Benthic Ecology Meeting, Mobile, AL*
Coastal and Estuarine Research Federation, Daytona Beach, FL
2012 *Benthic Ecology Meeting, Norfolk, VA (co-author on 4 presentations)*

