CURRICULUM VITAE

William G. Wright
Associate Professor
Department of Biological Sciences
Chapman University
One University Drive
Orange, California 92866
wwright@chapman.edu

EDUCATION:

Associate Professor
2002-Present: Department of Biological Sciences, Chapman University
1996-2002: Department of Biology, Colorado State University

Assistant Professor
1990-1996: Department of Biology, Colorado State University

Postdoctoral
1986-1990: Department of Psychology, Yale University
1985-1986: Friday Harbor Laboratories, Univ. Washington

Graduate
1979-1985: Scripps Inst. Oceanogr. PhD, Oceanography, August 1985; J. T. Enright, Advisor
1975-1979: Moss Landing Mar. Labs, J. Nybakken, advisor

Undergraduate
1969-1973: Univ. of Calif. Santa Cruz, B.A. Biology

GRANTS:

2011-2013 National Science Foundation. $35,000. Research Opportunity Award. "LTER: Land/ocean interactions and the dynamics of kelp forest communities". P.I., Daniel Reed, UCSB.

2007-2011 National Science Foundation. $363,000. Predation-induced sensitization in *Aplysia californica* (IOS-0721800; no-cost extension).

2002-2006 National Science Foundation. $338,000. Evolutionary role of neuromodulation in associative memory (IBN-0131743). Research Experience for Undergraduates $14,000.

1996-99 National Science Foundation. $210,000 Evolution of learning-related neuromodulation (IBN-9632069).
Research Experience for Undergraduates $5000

1997, 1999 Colorado State Mathematics and Science Education, $500 each year. Experimental trial small group studies in large (ca 400 students) lecture.

1995-96 National Science Foundation. $60,000 Evolution of learning-related neuromodulation (IBN-9511215). Research Experience for Undergraduates $5000

1995-97 Whitehall Foundation, Inc. $80,000; The role of serotonin in a parasite-induced change in behavior (#W94-11).

1991-95	Hughes Summer Scholar Fellowship. $15,000. Salary for six separate fellows during four summers.
1991-95	Hughes Foundation. $3000. Supplement for Hughes Fellows.
1994	Graduate School, Col. St. Univ. Faculty Research Grant. $4,500. Organization of Neuromodulation.
1992	Graduate School, Col. St. Univ. Faculty Research Grant. $4,000. Phylogenetic analysis of neural substrates of learning.
1991	John H. Venable Memorial Scholarship. Equipment grant, $700
1986-89	National Institutes of Mental Health. $63996. The development of sensitization in *Aplysia* : Temporal emergence and effects of early experience.

HONORS:

May 2019-	2018-2019 Award in Mentorship of Undergraduate Research and Creative Activity. Chapman University
August 2017	Invited Speaker, Chapman University "Chap-ed" talk to incoming first-year students.
May, 2016	Invited speaker, Southern California Academy of Sciences 2016 Annual Meeting, special symposium, "50 years of research at the USC Wrigley Institute."
Spring, 2014	Invited Panelist, *Town Hall Meeting on Grades*, Sponsored by Institute for Excellence in Teaching, Chapman University
Fall, 2013	National Academies, *Nominated Education Fellow* in Life Sciences
Fall, 2013	Invited Panelist, *Success in Academia*, Society for Neuroscience, Annual meeting San Diego
Spring, 2011	Invited Panelist, *Nature of Reality*, Chapman University
Fall, 2010	J. Neurosci. publication highlighted in Nature (V467, p8).
Spring, 2006	Valerie Scudder Award of Excellence, Chapman University
Spring, 2006	Outstanding Faculty Award, Residence Life, Chapman University
Spring, 2005	Outstanding Faculty Award, Residence Life, Chapman University
Spring, 2004	Outstanding Faculty Award, Residence Life, Chapman University
Spring, 2000	Undergraduate Mentor of the Year, Biology Dept. Col. St. Univ.
Spring, 1995	Undergraduate Teacher of the Year, College Nat. Sci., Col. St. Univ.
Fall, 1994	Undergraduate Teacher of the Year, Biology Dept., Col. St. Univ.
1986-90	National Inst. Mental Health Postdoctoral Fellow, Yale University.
1985-1986	Friday Harbor Laboratories Postdoctoral Fellow
1979-1980	Regents Fellowship, Univ. of Calif.

TEACHING EXPERIENCE:

2002-pres. Chapman University, Biological Sciences: Professor
Biostatistics (Biol 250)
Introduction to Life Science (Biol 103)
General Biology First Semester (Biol 204)
General Biology Second Semester (Biol 205)
Marine Biology (Biol 440)

Biology of Learning and Memory (Biol 329)
Global Change and Marine Biology (Biol 329)
Senior Capstone (Learning and Memory, Biol 498)

2001 University of Puerto Rico, Institute of Neurobiology, Visiting Professor
Tropical Neuroethology

1990-2002 Colorado State University, Department of Biology: Professor
Cellular Basis of Behavior (Z536)
Principles of Animal Biology (Z110)
Marine Ecology (Z315).

1988-1989 Yale University, Guest Lecture
Neuroethology

1988-1989 Marine Biological Laboratories, Woods Hole, Mass. Teaching Assistant.
Neural Systems & Behavior.

PUBLICATIONS (names in **bold** indicate undergraduate or post baccalaureate collaborators).

Manuscripts In Preparation

Gould, N., and W. G. Wright. Nonlethal heat shock compromises the behavior of an ecosystem engineer.

Thomas, H. A, S. Da Silva, and W. G. Wright. Hermit crabs are enthusiastic predators of small sea hares.

Sunoo, M., J. Liu, and W. G. Wright. Growing aware: Ontogenetic change in olfactory response to predators.

Sidun, A. , and W. G. Wright. Acute weak acidification blocks chemically-mediated predator response in an intertidal hermit crab.

Wright, W. G. Adaptive evolution of learning and memory in a model lineage. *In* Krause, M., K. Hollis, M. Papini. Evolution of Learning and Memory Mechanisms. Cambridge University Press. Slated to be published, Fall 2020.

*Manuscripts <u>Published</u> in Peer Reviewed Journals **Bold** names were undergraduate collaborators*

2020 41. Wright, W.G. Adaptive evolution of learning and memory in a model lineage. In Krause, M., K. L. Hollis, & M. R. Papini (Eds.) *Evolution of Learning and Memory Mechanisms.* Cambridge University Press. *In Press.*

40. **Kabala, R. T., N. A. Swinford, M. J. Mason,** and W.G. Wright. The role of dislodgement in the territorial ecology of the owl limpet, *Lottia gigantea*. Ethology Ecology & Evolution: 1-15.

2018 39. Mason, M. J**.,** V. A. Zachary, **J. Berriman**, A. B. Mason, C. Rakovski, and W. G. Wright. Reduced tenacity during "high-speed" territorial encounters in the intertidal owl limpet, *Lottia gigantea:* Agonistic escalation increases risk of wash-off. J. exp. mar. Biol. Ecol. 509:71-81.

38. Himstead, A, and W.G. Wright. Precise foraging schedule in an intertidal euopisthobranch mollusk. Mar. Freshw. Behav. Physiol. 51(2): 131-141. abstract

2015 **37. Berriman, J. S. ,** M. Kay, D. Reed, A. Rassweiler, **D. Goldstein**, and W.G. Wright. Shifts in attack behavior of an important kelp forest predator within marine reserves. Mar. Ecol. Progr. Ser. 522: 193-201.

2014 **36.** M. J. Mason, A. J. Watkins**, M. Brown, J. Wakabayashi, J. Buechler, and** W. G. Wright**.** Connecting model species to nature: predator-induced long-term sensitization in *Aplysia californica*. Learning & Memory: 21: 363-367.

2010 **35.** A. J. Watkins, D. A**. Goldstein, L. C. Lee, C. J. Pepino, S. L. Tillett, F. E. Ross, E. L. Wilder,** V. A. Zachary, and W. G. Wright. Lobster attack induces sensitization in the sea hare, *Aplysia californica*. J. Neurosci. 30: 11028 –11031.

34. **K. K. Takagi, N., N. Ono**, W. G. Wright. Interspecific variation in palatability suggests co-specialization of anti-predator defenses in a sea hares. Mar. Ecol. Progr. Ser. 416:137-144.

2007 **33.** Wright, W. G. and J. W. Nybakken. Effect of wave action on movement in the owl limpet, *Lottia gigantea.* Bull. Mar. Sci.81: 235-244.

32. **Jami, S. A. ,** Wright, W. G., and D. L. Glanzman. Differential classical conditioning of the gill-withdrawal reflex in *Aplysia* recruits both NMDA receptor-dependent enhancement and NMDA receptor-dependent depression of the reflex. J. Neurosci. 2007 27: 3064-3068.

2006 **31. Hoover, B. A., H. Nguyen, L. Thompson**, and W. G. Wright. Associative memory in three aplysiids: Correlation with heterosynaptic modulation. Learn. Mem. **13**: 820-826.

2003 **30.** Marinesco, S. K.L. Duran, and W. G. Wright. Evolution of learning in three aplysiid species: Differences in heterosynaptic plasticity contrast with conservation in serotonergic pathways. J. Physiology-London 550 (1): 241-253.

2000 29. Wright, W. G. Neuronal and behavioral plasticity in evolution: Experiments in a model lineage. Bioscience. 50: 883-894.

28. Shivik, J. A., W. G. Wright, and L. Clark. Seasonal variability in brown treesnake (Boiga irregularis) response to lures. Can. J. Zool. 78: 79-84.

1999 **27. Erixon, N. J., L. J. DeMartini**, and W. G. Wright. Dissociation between sensitization and learning-related neuromodulation in an aplysiid species. J. Comp. Neurol. 408: 506-514.

1998 26**.** Maynard, B.J., T.A. Wellnitz, N. Zanini, W.G. Wright, , B.S. Dezfuli. Parasite-altered behavior in a crustacean intermediate host: field and laboratory studies. Journal of Parasitology. 84:1102-1106

25. Wright, W. G. Evolution of nonassociative learning: Behavioral analysis of a "phylogenetic lesion". Neurobiology of Learning and Memory 69:326-337. abstract

1996 24. Wright, W. G., **D. Kirschman, D. Rozen**, & B. Maynard. Phylogenetic analysis of learning-related neuromodulation in molluscan mechanosensory neurons. Evolution 50: 2248-2263.

23. Maynard, B.J., **DeMartini, L**. & Wright, W.G. *Gammarus lacustris* harboring *Polymorphus marilis* and *Polymorphus paradoxus* show altered patterns of serotonin-like immunoreactivity. J. Parasitology 82: 663-666.

22. Wright, W.G., **E. McCance**, and T.J. Carew. Developmental emergence of long-term memory for sensitization in *Aplysia*. Neurobiology of Learning and Memory 65: 261-268.

1995 21. Wright, W. G., **K. Jones**, **P. Sharp**, and **B. Maynard**. Widespread anatomical projections of the serotonergic modulatory neuron, CB1, in *Aplysia*. Invert. Neurosci. 1: 173-183. abstract

20. Wright, W. G. and A. L. Shanks**.** Interspe**c**ific association between bail-out behavior and habitat is geographically and phylogenetically widespread. J. exp. mar. Biol. Ecol. 188: 133-143.

19. Wright, W. G. & **D. Kirschman**. Direct comparison of serotonin effects on siphon versus tail sensory neurons in *Aplysia*. Learning and Memory 2:178-184.
18. Wright, W. G. and T. J. Carew**.** A single identified interneuron gates tail-shock induced inhibition in the siphon withdrawal reflex of *Aplysia*. J. Neurosc. 15: 790-797.

1993 17. Wright, W.G., and A.L. Shanks. Previous experience determines territorial behavior in an archaeogastropod limpet. J. exp. mar. Biol. Ecol. 166: 217-229. abstract

1992 16. Wright, W.G., **E. McCance**, **T. Lu**, and T.J. Carew. Delayed-onset sensitization emerges after dishabituation in developing *Aplysia*. Behavioral and Neural Biology. 57: 170-174. abstract

1991 **15. Wright, W. G.,** E. A. Marcus, T. J. Carew. A cellular analysis of inhibition in the siphon withdrawal reflex of *Aplysia*. J. Neurosc. 11: 2498-2509.

1990 **14.** Fitzgerald, K. **,** W. G. Wright, **E.A. Marcus**, T. J. Carew. Multiple forms of non-associative plasticity in *Aplysia*: a behavioural, cellular, and pharmacological analysis. Phil.Trans.R.Soc.Lond.B 329: 171-178.

1989 **13. Wright, W. G.** Intraspecific density mediates sex change in in the territorial patellacean limpet, *Lottia gigantea*. Marine Biology. 100:353-364. abstract

12. Wright, W. G., E. A. Marcus, and T. J. Carew. Facilitation and inhibition in the siphon withdrawal reflex of *Aplysia*: A behavioral and cellular analysis. In Carew, T. J. and D. B. Kelly. *Perspectives in Neural Systems and Behavior.* New York Alan R. Liss, Inc.

1988 **11.** Wright, W.G. Sex change in the Mollusca. Trends in Ecology and Evolution 3: 137-140. abstract

1987 **10.** Shanks, A.L. and W.G. Wright. Internal-wave-mediated shoreward transport of cyprids, megalopae, and gammarids, and correlated longshore differences in settling rate of intertidal barnacles. J. exp. mar. Biol. Ecol. 114:1-13. abstract

1986 **9.** Shanks, A.L., W.G. Wright, and **G. Maltz**. What triggers the "bail out" behaviour in the limpet *Lottia gigantea*? Mar. Behav. Physiol. 12: 71-79.

8. Shanks, A.L., and W.G. Wright. Adding teeth to wave action: the destructive effects of wave-borne rocks on intertidal organisms. Oecologia 69: 420-428. abstract

7. Huber, M. E., W.G. Wright, and R. A. Lewin. Divalent cations and flagellar autotomy in *Chlamydomonas reinhardtii*. Phycologia 25: 408-411. (no abstract)

1985 6. Wright, W. G. The behavioral ecology of the limpet Lottia gigantea: interaction between territoriality, demography, and protandric hermaphroditism. PhD. Thesis. University of California San Diego.

5. Lindberg, D.R. **a**nd W.G. Wright. Patterns of sex change of the protandric patellacean *Lottia gigantea* (Mollusca: Gastropoda) Veliger 27(3): 261-265.

1982 **4.** Wright, W.G**.** Ritualized behavior in a territorial limpet. J. exp. mar. Biol. Ecol. 50 245-251. abstract

3. Wright, W.G. and D.R. Lindberg. Direct observation of sex change in the patellacean limpet *Lottia gigantea.* J. mar. biol. Ass. U.K. 62: 737-738. abstract

1979 2. Wright, W.G. and D.R. Lindberg. A nonfatal method of sex determination for patellacean gastropods. J. mar. biol. Ass. U.K. 59: 803. abstract

1978 1. Wright, W.G. and J.A. Raymond. Air breathing in a California sculpin. J. exp. Zool. 203: 171-176. abstract

Book Chapters (also listed under Publications

2020 41. Wright, W.G. Adaptive evolution of learning and memory in a model lineage. In Krause, M., K. L. Hollis, & M. R. Papini (Eds.) *Evolution of Learning and Memory Mechanisms.* Cambridge University Press. *In Press.*

2000 W. M. Timpson & Wright, B. G. From big water to reflective pools: Study groups in large lecture classes. In H. Edwards, B. Smith, & G. Webb (Eds.), Lecturing: Case Studies, Experience and Practice London: Kogan Page Publ. Ltd. 192 pp.

1989 Wright, W. G., E. A. Marcus, and T. J. Carew. Facilitation and inhibition in the siphon withdrawal reflex of Aplysia: A behavioral and cellular analysis. In Carew, T. J. and D.B. Kelly (eds.), Perspectives in Neural Systems and Behavior.

Book Review

Wright, W. G., 2003. Book Review. Ron Chase. Behavior and its Neural Control in Gastropod Molluscs. Comp. Bioch. Physiol. A. 136: 791-792

Abstracts in Scientific Meetings

2016 **Sidun, A.F**., and W. G. Wright. Slight acidity abolishes chemically mediated avoidance behavior in an intertidal hermit crab. West. Soc. Nat. Ann Meeting. 162.

Himstead, A.H., and W. G. Wright. Survival without a shell: Evolutionary loss of chemical and cognitive defenses associated with precise predator avoidance. West. Soc. Nat. Ann Meeting. 79.

2015 **Gould, N. G. , T. Gunanto, J. Martinez**, W.G. Wright. Field experiments demonstrate that heat spells can reduce territory defense in the owl limpet, *Lottia gigantea.* West. Soc. Nat. Ann Meeting. 40.

2013 **Gomez, S. F., K. K. Takagi**, and W. G. Wright. Hermit-crab assay reveals heterogeneity in deterrence by actively secreted chemical defenses in *Aplysia californica.* Soc. Integr. Comp. Biol. Ann. Meeting P1.44.

Takagi, K. K., C. R. James, and W. G. Wright. A model system for predicting the effects of global warming: Acute and chronic effects of warm temperature on feeding behavior of *Pagurus samuelis.* Soc. Integr. Comp. Biol. Ann. Meeting P3.33.

2012 **Berriman, J. S.** , M. C. Kay, D. C. Reed, W.G. Wright. Prey depletion in marine reserves consistently broadens predator diet. West. Soc. Nat. Ann Meeting. 8

Swinford, N. A., M. J. Mason, **R.T. Kabala,** W. G. Wright. Risk of dislodgment during territorial encounters in *Lottia gigantea* is negligible, save for the youngest combatants. West. Soc. Nat. Ann Meeting. 96.

Triebnig, C. J., **K. K. Takagi**, W. G. Wright. Hermit crabs avoid predator cues, regardless of the strength of their protective shell. West. Soc. Nat. Ann Meeting. 100.

2011 **Mason, M.J**., **A. J. Watkins, M. Brown, J. Buechler, J. Wakabayashi**, and W. G. Wright. Repeated lobster attack, like repeated electric shock, produces long-lasting sensitization and reduces spike threshold of tail mechanosensory neurons. Soc. Neurosci. Ann Meeting. 297.29.

2009 **Goldstein, D. A., J. S. Berriman,** and W. G. Wright. Spiny lobsters, *Panulirus interruptus*, from inside marine life protected areas, exhibit unprecedented attack behavior on sea hares (*Aplysia californica*). West. Soc. Nat. Ann Meeting.

Berriman, J. S., and W. G. Wright. Do territorial owl limpets (*Lottia gigantea*) assess risk? Tenacity and speed of chase behavior correlate with local neighborhood. West. Soc. Nat. Ann Meeting.

2008 Zachary, V.A. , M. J. Mason, and W. G. Wright. Battles against competitors and waves in the California rocky intertidal: A study of the tenacity of the territorial owl limpet, *Lottia gigantea.* West. Soc. Nat. Ann Meeting

Berriman, J. S. , M. J., Mason, M. W. Denny, and W.G. Wright. Water cannon discharges that mimic moderate waves reveal elevated risk of dislodgment during territorial encounters in the intertidal limpet, *Lottia gigantea*. West. Soc. Nat. Ann Meeting

2006 **Thomas, C. S., A. Rodriguez, S. L. Tillett,** and W. G. Wright. Sublethal attack by *Navanax inermis* (Phylum, Mollusca) produces sensitization in *Aplysia californica*. Program No. 813.11. 2006 Neuroscience Meeting Planner Atlanta GA: Society for Neuroscience, 2006. Online.

Ross, F, E. L. Wilder, S. L. Tillet, and W. G. Wright. Sub-lethal attack by *Panulirus interuptus* (Crustacea) produces sensitization in *Aplysia californica.* Program No. 813.12. 2006 Neuroscience Meeting Planner Atlanta GA: Society for Neuroscience, 2006. Online.

2005 **Takagi, K. K., N. Reihanifam, B. Freitas,** and W. G. Wright. Chemical versus cognitive defenses in opisthobranch mollusks. Soc. Integr. Comp. Biol. Ann. Meeting: 23.4, pg42.

2004 **Koltavary, E., B. Hoover, K**. **Koltavary,** T. Capo, and W. G. Wright. Experimentally compromised chemical defenses enhances sensitization in *Aplysia*. Soc. Neurosci. Abstr. 34. 778.15

2003 **Takagi, K.**, & W. G. Wright. Chemical versus cognitive defenses in opisthobranch mollusks. West. Soc. Naturalists. Annual Meeting.

Marinesco, S., K.L. Duran, & W. G. Wright. Evolution of learning in three aplysiid species: Differences in heterosynaptic plasticity contrast with conservation in serotonergic pathways. Cold Spring Harbor Symposium on Learning and Memory.

Shekib, A. , W. G. Wright, D. L., Glanzman. Differential classical conditioning of the *Aplysia* gill-withdrawal reflex depends upon NMDA receptor activation and a competitive interaction between the neural pathways. Soc. For Neurosc. Abstr 28: 520.4.

2001 **Hoover, B.** , **L. Thompson**, W. G. Wright. Evolutionary loss of modulation by serotonin is correlated with shorter memory of classical conditioning in an aplysiid clade. Soc. Neurosci. Abstr. 27: 644.24

2000 Wright, W. G., and D. L. Glanzman. Synaptic plasticity depends upon synaptic milieu: Observations from co-cultures of *Aplysia* neurons. Soc. Neurosci. Abstr. Soc. Neurosc. Abstr. 26: 1525

Wright, W. G. A phylogenetic analysis of non-associative learning mechanisms in a molluscan lineage. The XVIIIth (New) International Congress of Zoology.

1999 Wright, W.G. , **R. Yong**, and D. L. Glanzman. Synaptic competition at the *Aplysia* sensorimotor synapse: Tetanic stimulation of one presynaptic input depresses a second presynaptic input. Soc. Neurosc. Abstr. 25: 1314.

1998 Duran, K. L**., J. W. Kinney**, and W. G. Wright. Site-specific sensitization in a species lacking generalized sensititization. Soc. Neurosc. Abstr. 24: 1190

Maynard, B. J., N. J. Erixon, **L. J. DeMartini,** and W. G. Wright. Dissociation between sensitization and learning-related neuromodulattion in an aplysiid species. Soc. Neurosc. Abstr. 24: 1190.

1997 **Wright, W. G. 1997**. Evolution of non-associative learning: Behavioral analysis of an evolution-induced neuromodulatory lesion. Soc. Neurosc. Abstr. 23: 1959.

1995 Wright, W. G., **K. Jones, P. Sharp**, and B. Maynard. Does the serotonergic neuron, CB1, modulate multiple reflexes in *Aplsyia*? Anatomical evidence. Soc. Neurosc. Abstr. 21: 1024.

1994 Wright, W. G., and B. Maynard. Evolution of learning-related neuromodulation in opisthobranch molluscs. Soc. Neurosc. Abstr. 20: 230.

1993 Wright, W. G. , **D. Kirschman**, and **D. Rozen**. Evolution of serotonin-induced changes in firing properties of opisthobranch mechanosensory neurons. Cold Spring Harbor Symposium: Neurobiology of *Aplysia*.

1992 Wright, W. G. , and **D. Kirschmann**. Serotonin-induced increases in excitability and action potential duration in mechanosensory neurons: similarity across ganglia and between species. Soc. Neurosc. Abstr. 18: 16.

1990 Wright, W. G. and T. J. Carew. Contributions of interneurons to tail-shock induced inhibition of the siphon withdrawal reflex in *Aplysia*. Soc. Neurosc. Abstr. 16: 20.

Wright, W. G. , E. M. Marcus, and T. J. Carew. Multiple sites of synaptic modulation mediate behavioral plasticity in *Aplysia*. Am. Malacol. Un. 56th Ann. meeting.

1989 Wright, W.G**., E. A. Marcus**, and T.J. Carew. Dissociation of monosynaptic and polysynaptic contributions to dishabituation, sensitization, and inhibition in *Aplysia*. Soc. Neurosci. 15: 1265.

Carew, T.J., W. G. Wright, and **E. McCance**. Development of long-term memory in Aplysia: Long-term sensitization is present when short-term sensitization first emerges. Soc. Neurosci 15: 1285.

1988 Marcus, E.A., W.G. Wright, and T.J.Carew. Behavioral and cellular dissociation of multiple components of nonassociative learning in *Aplysia*. Cold Spring Harbor Symposium: Cell and Molecular Neurobiology of Aplysia: 50.

Wright, W.G., E.A.Marcus, **H. Thaker**, and T.J. Carew 1988. A cellular analysis of tail-shock induced inhibition in the siphon withdrawal reflex of *Aplysia*. Soc. Neurosci. 14: 841.

1987 Wright, W. G. An indirect method to detect predation of the owl limpet, *Lottia gigantea.* 2nd Calif. Isl. Symposium, St. Barbara, Calif.

1984 Wright, W. G. Fight or flee in a territorial limpet: Substratum cues and previous experience. Am Zool. 24: 101A.

Wright, W. G. Is sex change in limpets socially mediated? Am. Zool. 24: 60A.

1981 Wright, W.G. Ritualized behavior in a territorial limpet. West.Soc.Natur. 62nd Ann. Meeting.: 47.

Wright, W.G. Behavioral plasticity in a territorial limpet. West. Soc. Natur. 63rd Ann. Meeting: 57.

1978 Wright, W.G. Aspects of the ecology and behavior of the owl limpet, *Lottia gigantea*. West. Soc Malacol. Ann. Rep. 11: 7.

1977 Wright, W.G. Avoidance and ecape: Two responses of Intertidal limpets to the presence of the territorial owl limpet *Lottia gigantea.* West. Soc. Nat. 58th Ann. Meeting: 50.

Wright, W.G. and J. A. Raymond. Air-breathing in California sculpin. West. Soc. Nat. 58th Ann. Meeting: 55.

INVITED SEMINARS

Spring, 2016	Invited speaker, Chapman Summer Undergraduate Research Fellows Speaker Series.
Spring, 2016	Invited speaker, Chapman Faculty Forum
Spring, 2016	Invited speaker, Oregon Institute of Marine Biology
Spring, 2016	Invited speaker, Southern California Academy of Science Annual Meeting Special Symposium: 50 years of research at the USC Wrigley Institute.
Spring, 2014	Invited Panelist, *Town Hall Meeting on Grades*, Institute for Excellence in Teaching, Chapman Univ.
Fall, 2013	Invited Panelist, *Success in Academia*, Soc. Neurosc. Annual meeting San Diego
Spring, 2011	Invited Panelist, *Nature of Reality*, Chapman Univ.
Fall, 2010	Invited speaker, California State University, Fullerton, Biology
Spring, 2010	Invited speaker, Univ. Calif., Santa Cruz, Ecol. Evol.

	Biol.
Spring, 2007	University of Oregon, Or. Inst. Mar. Bi
Spring, 2006	Univ. Calif., Santa Cruz, Conf celebrating John Pearse
Fall 2004	Northern Arizona University, Tucson, AR
Fall 2004	California State University Fullerton, CA
Spring 2004	University of Idaho, Biological Sciences
Spring, 2002	Cornell University, Neurob. & Behav.
Spring, 2002	University of Maryland, Psychology
Fall, 2001	Ohio University, Athens, Ohio
Spring, 2001	Southampton College, NY
Spring, 2001	Caltech, Biology Department
Summer, 2000	Am. Psych. Ass., Washington D. C.
Summer, 2000	International Congress Zoology, Athens, Greece
Fall, 1999	UCLA, Psychology
Spring, 1998	University of Denver, Biology
Spring, 1998	University of Oregon, Inst. Mar. Biol.
Summer, 1995	Krasnow Inst. Workshop, Fairfax, VA
Winter, 1995	NSF Workshop, Arlington, VA
Fall, 1994	Dept. Anat.Neurobiol., Col. St. Un.
Spring, 1994	Ev. Pop. Org. Biol., CU, Boulder
Winter, 1994	Wint. An. Behav. Conf., Jackson
Winter, 1994	Col. St. Univ., Psychology
Spring 1993	Biology Dept., Col.St.Univ.
Spring 1993	Univ.Oregon Institute of Neuroscience.
Summer 1991	Univ. Calif. Irvine, CntrNeurLearnMemory
Fall 1990	Col. St. Univ.,Prgm Neur. Growth Devel.
Summer 1990	Am. Mal. U., Symp Neurobiol Moll., Woods Hole
Spring 1990	Cornell Medical School, NY
Fall 1989	SUNY, Brooklyn, Neural Behavioral Sciences
Fall 1987	SUNY, Stonybrook, Oceanography

PROFESSIONAL SERVICES

Grant reviewer:

National Science Foundation

Served on NSF grant evaluation panels Spring, 2004, 2005, 2008, 2010,

National Institute of Health

West Coast National Undersea Research Center

Israel Science Foundation

Journal reviewer:

American Naturalist

American Zoologist

Aquatic Biology

Behavioral and Neural Biology

Behavioral Ecology

Biological Bulletin

Brain, Behavior, and Evolution

Ecology
Frontiers in Neuroscience
Invertebrate Neuroscience
Journal of Comparative Physiology
Journal of Neuroscience
Journal of Neurophysiology
Journal of Parasitology
Learning and Memory
Marine Biology
PLOS ONE
Neurobiology of Learning and Memory
Systematic Biology
Veliger

Professional Societies:
Society for Neuroscience
American Society of Zoologists
Western Society of Naturalists

Honor Society
Phi Kappa Phi