

Vita: ALLISON RICHARD PALMER**Present Address**

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Degrees

Ph.D. Zoology 1980 University of Washington, Seattle (advisor, R.T. Paine)
 B.Sc. Biology 1973 State University of New York, Stony Brook (advisor, J.S. Levinton)

Academic Positions

Director, Bamfield Marine Sciences Centre 2007-2008
 Professor of Biological Sciences, University of Alberta 1991 - present
 Associate Professor of Zoology, University of Alberta 1985 - 1991
 Assistant Professor of Zoology, University of Alberta 1980 - 1985

Professional Honors & Recognition

Gordin Kaplan Award for Excellence in Research, University of Alberta (March) 2010
 Visiting Professor, Netherlands Royal Academy of Sciences 2009-10
 Invited Plenary Lecture, Lorentz Center, Leiden University, Netherlands (March) 2008
 Elected Fellow of the Royal Society of Canada (June) 2007
 Invited Plenary Lecture, Gordon Research Conference, Bryant University (July) 2006
 Co-Founder & Inaugural Chair, Comparative Morphology & Development section,
 Canadian Society of Zoologists 2005 - 2007
 Invited Plenary Lecture, 100th Anniversary University of Puerto Rico
 Graduate Student Research Symposium: "Biology of the New Millennium" 2003
 Elected Council Member, Int'l Organization for Systematics & Evolutionary Biology 2002- 07
 Invited Plenary Lecture, International Chirality Conference, Orlando, FL (July) 2001
 Faculty of Science Award for Excellent Teaching, University of Alberta 2001
 Invited Plenary Lecture, German Zoological Society, Bonn, Germany (June) 2000
 McCalla Research Professorship, University of Alberta 2000/2001
 Invited Participant, US National Academy of Sciences Colloquium,
 "Symmetries Throughout the Sciences", Irvine, CA (June) 1996
 76th President, Western Society of Naturalists 1995

Research Grants Received (total award unless stated otherwise)

	Period	Amount
NSERC Discovery Grant (<i>per year</i>)	2006-11	66,900
	2001-06	58,000
	1998-2001	51,450
	1996-98	45,000
	1992-96	42,960
	1989-92	50,000
	1986-89	46,500
	1983-86	37,000
	1980-83	15,000
NSERC Major Resource Support Grant, Bamfield Marine Sciences Centre (PI, with 10 others)	2008-11	1,047,900
NSERC Equipment Grant to Bamfield Marine Sciences Centre (plate reader; PI, with 7 others)	2008	50,562
NSERC Equipment Grant to Bamfield Marine Sciences Centre (incubators; PI, with 7 others)	2008	19,987
NSERC Equipment Grant to Bamfield Marine Sciences Centre (autoclave; with Greg Goss (PI) & 5 others)	2007	35,897
NSERC Major Facilities Access Grant to Bamfield Marine Sciences Centre (with D.E. Jelinski (PI) & 8 others)	2005-08	1,158,000

Alberta Ingenuity Fund Ph.D. Scholarship & grant (with M.J. Boeckner)	2005-10	117,500
Alberta Ingenuity Fund Research Associateship (with C.A. Bergstrom)	2003-05	110,000
Alberta Ingenuity Fund Ph.D. Scholarship & grant (with A.A. Eaves)	2002-07	117,500
CFI + Alberta Innovation & Sci. + BC Knowledge Network (with A.N. Spencer (PI) & 8 others) "Infrastructure for Studies in Biodiversity and Bioenvironmental Fluid Dynamics"	2001-02	2,737,402
CFI + Alberta Innovation & Sci. (with B. Hallgrimsson (PI) & 8 others) "Creation of a Multidisciplinary 3-D Morphometrics Center"	2001	412,808

Editorial Contributions

Editorial Board, <i>Evolutionary Biology</i>	2006 - pres.
Co-Editor, <i>Zoology</i>	2000 - 2007
Associate Editor, <i>Evolution</i>	1992 - 1997
Editorial Board, <i>American Malacological Bulletin</i>	1990 - 2003
Associate Editor, <i>Paleobiology</i>	1982 - 1992
<i>Ad hoc</i> Editor, <i>Ecology</i>	1987 - 1988

Administrative Contributions

Director, Digital Teaching Resources Laboratory, Dept. of Biological Sciences	2001 - 2007
Co-Chair or Chair, Systematics and Evolution Group, Dept. of Biological Sciences, University of Alberta	1995 - 2000, 2001-02
Associate Chair, Department of Zoology, University of Alberta	1991 - 1994
Dept. of Biological Sciences nominator for 3 CRC-CFI applications (2 awarded)	2001-02, 2005

Society Contributions

Secretary-General, Comparative Morphology & Development section, CSZ	2007-pres.
Inaugural Chair, Comparative Morphology & Development section, CSZ	2005-07
Council Member, Int'l. Organization for Systematic & Evolutionary Biology	2006-09
Member of Local Organizing Committee for Edmonton CSZ meeting	2006
Hoar Award Committee, Canadian Society of Zoologists	2005
Chair, Nominating Committee, Western Society of Naturalists	1997
President, Western Society of Naturalists	1995

Current Society Memberships

American Microscopical Society	Crustacean Society
American Society of Naturalists	Royal Society of Canada
California Malacozoological Society	Society for the Study of Evolution
Canadian Society of Zoologists	Society of Systematic Biologists

Teaching Experience

Undergraduate courses

Survey of Invertebrates	Lecture, lab & WWW support	1997-pres.**
Marine Biology/Science	Lecture & WWW support	1984-86, 91-pres.**
Honors Invertebrate Zoology	Protostomia, lecture and lab	1980-92, 1995
Introductory Biology	Lecture; Ecology & Evolution	1982, 1983
Mechanisms of Evolution	Lecture	1982-89, 1992

Graduate courses

Evolutionary Genetics	Graduate Seminar	1985-91
Graduate Student Core Course	Required of new students	1988-89
Topics in Systematics & Evolution	Graduate Seminar	1998-pres.**

Courses at field stations

Animal Structure & Function	Bamfield Marine Sciences Centre	1996-pres.**
Functional Morphology & Evolution	Friday Harbor Laboratories	1986
Marine Ecology	Bamfield Marine Station	1980

** Excluding years on leave

Departmental Committees

Learning Initiatives Committee	1997-2009. (chaired 1999-2002, 2003-2007)
Curator of Marine Invertebrates & Malacology, U. Alberta Museum of Zoology	1993-pres.
Curriculum & Calendar Committee	1988-89, 1994-95, 1997-2000
Graduate Students Committee	1980, 84-86, 91-95, 1997-2000
Seminar Committee	1980-83 (chaired 81-82), 1991-93, 95
Scholarships Committee	1991-1994
Priorities & Planning Committee	1983-84
Space Committee	2001-02, 2003-06

Post-Doctoral Research Associates (* Alberta Ingenuity Fund, † Quebec, FCAR, ** current)

Edgell, Tim	2007-08	Learning, handedness and induced asymmetry in crab claws
Bergstrom, Carolyn *	2003-07	Biogeography & genetics of flounder eye-side polymorphism
Anker, Arthur	2002-05	Systematics & evolution of snapping shrimp (Alpheidae)
Arsenault, Dave †	1998-01	Phenotypic plasticity in barnacles & <i>Nucella</i>
Klingenberg, Chris	1996	Landmark-morphometric analyses of asymmetry variation
Rawlings, Tim	1995-96	Intra- & inter-specific variation in <i>Nucella</i> egg capsule form
Dalby, James	1994-95	Geographic variation & plasticity in <i>Nucella lima</i> shell form
Smith, L. David	1992-93	Phenotypic plasticity in claw form of brachyuran crabs
Ash, Vivian	1988	Adaptive significance of shell color & banding variation in <i>Nucella</i>

Graduate Students Supervised (** current; Funding: * NSERC, † Alberta Ingenuity Fund, †† Killam Predoc., § U of A PhD Schol., §§ DAAD Schol., # Prov.Alb.Schol.)

Ph.D.		Subject of thesis
Barazنده, Marjan	2008-**	Molecular tests of mating behavior in barnacles
Neufeld, Chris*†	2005-**	Adaptive phenotypic plasticity in barnacle legs & penises
Boeckner, Matthew J.†	2003-09	Ecology and diversity of marine meiofauna
Eaves, Alexandra A.†	2002-08	Developmental plasticity & cloning of echinoderm larvae
Macdonald, Tara A.*	2000-06	Systematics & evolution of spirorbid polychaetes (Annelida)
Penney, Brian K. §	1996-02	Feeding & defensive adaptations in dorid nudibranchs.
Zaklan, Stephanie §	1995-00	Systematics & carcinization in lithodid crabs (Anomura)
Cameron, Christopher	1994-00	Hemichordates functional morphology, ecology & systematics
Taylor, Graeme M.	1991-99	Functional morphology & evolution of brachyuran crab claws
Rawlings, Timothy L.	1989-95	Costs & benefits of variation in <i>Nucella emarginata</i> capsule form
Padilla, Dianna K.	1981-87	Effects of algal calcification & form on herbivore feeding success
Lowell, Richard B.††	1980-86	Safety factors & the functional properties of intertidal limpet shells
M.Sc.		Subject of thesis
Miyashita, Tetsuto†	2010-**	Correlates of handed behavior in vertebrate skeletons
Hayne, Kurtis J.	2008-**	Developmental plasticity of sea star tube feet
Krause-Nehring, §§ Jacqueline	2007-08	Ontogeny & function of juvenile <i>Cancer</i> crab color polymorphism
Gillespie, Jayson M.*	2000-03	Systematics & development of sea spiders (Pycnogonida)
Marchinko, Kerry B.*	2000-02	Adaptive phenotypic plasticity in barnacle feeding legs
Cook, Kathryn A.	1988-92	Alarm response in northern abalone <i>Haliotis kamtschatkana</i>
Gratto, Cindy J.	1985-88	Effect of environment on shell form in <i>Thais lamellosa</i>
Boulding, Elizabeth G.	1980-83	Ecology & biomechanics of crab predation on infaunal bivalves

Membership on Supervisory Committees (** = current)

<u>M.Sc.</u>		<u>Ph.D.</u>	
Cuervo, A.	2003-05; U. Puerto Rico	Arkett, Stuart	1980-85
Elliott, J.	1983-86	Braimah, Aki	1982-85; Entomology
Eisenhower, Andrew	1987-91	Durante, Kathy	1989-94
Everson, P.	1980-81	Elliott, Glenn	2002-09
Harvell, C. Drew	1980-81	Eymann, Marcus	1986-91; Entomology
Harvey, Helene	1990-94; Biol. Sci., SFU	Larson, Karl	1987-92
LeBlanc, Yves	1982-85	Lewis, Rick	1980-83
McCorquodale, Dave	1980-83	Liu, H.	1987-89
Ogilvie, Gail	1983-86	Martel, Andre	1985-88
Perry, Jonathan	1998-01	McEuen, Scott	1983-85
Polzheim, Renee	1991-93	McIntyre, Grant	1995-00
Pohl, Greg	1988-92; Entomology	Pennington, Tim	1981-86
Riley, Ed	1981-83	Rumrill, Steve	1982-87
Stafford, Emily	2009-**(Earth/Atmos.Sci.)	Stinson, Elizabeth	1982-85
Vitek, Rob	1991-95	Straszynski, E.	1990-92; Entomology
		Wrubleski, Dale	1985-91; Entomology
		Young, Craig	1980-81

External Examiner of Ph.D. Theses from Other Universities

Dempster, Yvonne	1995	University of Cape Town, Cape Town, South Africa
Willmore, Kathy	2006	University of Calgary, Calgary, Alberta

Undergraduate Honors Theses Supervised

Hinchliffe, Rob	2006	Chiral tube-building behavior by caddisfly larvae
Peterson, Rhett	2005	Effect of claw handedness on aggressive interactions in crayfish
Rubeling, Daniella	2004	Symbionts of Barkley Sound sea urchins
Dearborn, Gregg	2003	Complete development of the sea spider <i>Achelia</i> (Pycnogonida)
Kelly, Jenn	2002	Adaptive significance of shell color polymorphism in <i>Nucella</i>
Rypien, Krystal	2000	Effect of size, density & habitat on claw injury in <i>Petrolisthes</i>
Mirth, Christen	1997	Size & shape allometry of fiddler crab claws (<i>Uca</i>)
Barton, Anise	1996	Comparative study of failure mechanics in brachyuran crab claws
Diane Wong	1994	Effect of heterozygosity on FA in tse-tse flies (w/ Dr. R. Gooding)
Harrison, Michelle	1994	Effect of risk stimuli on claw size and shape of a xanthid crab
Marko, Peter K.	1992	Geographic variation in shell plasticity of <i>Nucella emarginata</i>
Neufield, Michael J.	1992	Effect of water-borne predator stimuli on behavior of <i>Nucella</i>

NSERC(†) & Other Undergraduate Research Assistants Supervised

Appleton, Robert D.	1982-84	Leroi, Armand	1986
Barton, Anise	1996	Man in't Veld, Naomi	2004-05
Bein, Magnus†	2008	Marchinko, Kerry†	1999
Bogen, Adrian†	1992	Marko, Peter K.†	1991, 92
Chippindale, Adam K.†	1987, 88	Marks, Dawn	2006
Convey, Laurie E.	1987	Miyashita, Tetsuto	2008-09
Gillespie, Jayson	1998, 99	Montgomery, Emaline†	2009 (summ., fall)
Gruman, Christine	2006-07	Rankine, Cassidy	2009 (fall)
Harrison, Michelle†	1993-95	Rypien, Krystal†	1999
Hart, Michael W.†	1984, 85	Schneider, Murray	1981-82
Hibbert, Jennifer	1992	Witkowska, Kate	2002-04
Labadie, Linda	1995		

Reviewing for Scientific Journals (Jan. 1980 - June 2009; total= 301 reviews)

<i>Acta Oecologica</i>	1	<i>Heredity</i>	2
<i>Adaptive Behavior</i>	1	<i>Invertebrate Biology</i>	2
<i>American J. of Physical Anthropology</i>	6	<i>J. of Animal Ecology</i>	1
<i>American J. of Primatology</i>	2	<i>J. of Evolutionary Biology</i>	2
<i>American Malacological Union Bull.</i>	4	<i>J. of Experimental Biology</i>	1
<i>American Naturalist</i>	26	<i>J. of Exper. Marine Biology & Ecology</i>	6
<i>Animal Behaviour</i>	3	<i>Journal of Field Ornithology</i>	1
<i>Avian Biology</i>	2	<i>J. of Molluscan Studies</i>	2
<i>Behavioral Ecology and Sociobiology</i>	1	<i>J. of Zoology (London)</i>	2
<i>Biological Bulletin</i>	5	<i>Lateralita</i>	3
<i>Biological J. of the Linnean Society</i>	3	<i>Lethaia</i>	1
<i>Biological Reviews</i>	3	<i>Limnology & Oceanography</i>	2
<i>Biology Letters (Royal Society)</i>	1	<i>Malacologia</i>	4
<i>Bulletin of Marine Science</i>	1	<i>Marine Ecology Progress Series</i>	3
<i>Canadian Entomologist</i>	1	<i>Mathematical BioSciences</i>	3
<i>Canadian J. of Botany</i>	1	<i>Nature Reviews- Genetics</i>	1
<i>Canadian J. of Zoology</i>	16	<i>Naturwissenschaften</i>	3
<i>Coloquios de Paleontología</i>	1	<i>Oikos</i>	1
<i>Condor</i>	1	<i>Paleobiology</i>	9
<i>Ecology</i>	22	<i>PNAS</i>	4
<i>Entomologia</i>	1	<i>Proc. Royal Society of London, Ser. B</i>	7
<i>Estuarine Research</i>	1	<i>Quarterly Review of Biology</i>	1
<i>Evolution</i>	101	<i>Science</i>	5
<i>Evolution & Development</i>	1	<i>Trans. of the American Fisheries Society</i>	4
<i>Evolutionary Biology</i>	1	<i>Trends in Ecology & Evolution</i>	1
<i>Fragmenta Faunistica</i>	1	<i>Veliger</i>	13
<i>Functional Ecology</i>	2	<i>Zoology</i>	13
<i>Genetica</i>	3	various Symposia proceedings	3
<i>Genetics</i>	1		

Reviewing for Granting Agencies (Jan. 1980 - June 2009; total= 59 reviews)

Australian Research Council	3
Austrian Academy of Sciences	2
Boreal Institute/CBAR, University of Alberta, Research Grant	5
British Columbia Science Council Research Grant	1
FQRNT, Quebec	1
National Science Foundation (USA) Grants	18
Natural Environment Research Council (UK) Grants	3
Natural Sciences and Engineering Research Council (Canada) Grants & URF	23
Canada Foundation for Innovation	1
Canada Research Chairs Council	1
Special Research Fund - University of Antwerp	1

National / International Scientific Advisor

Review of Ruppert et al textbook <i>Invertebrate Zoology</i> (7th ed; 4 chapters)	June 2002
Site visit and evaluator of FONDAP program, Santiago, Chile (Oceanografía y Biología Marina, subprogram Invertebrates)	Aug. 1998, Apr. 1999, Jan. 2001
External assessment of nominee for Australian Academy of Science	Feb. 1999
Review of film about Bamfield for Karvonen Films Ltd., Edmonton	Nov. 1998

Field Research Experience (North America)

Florida	Smithsonian Marine Station, Link Point (1996)
California	Bodega Bay Marine Lab (1985,1986), Hopkins Marine Stn., Stanford Univ. (1988)
Alaska	Glacier Bay Nat'l Monument (1974, 1978-82); Aleutian Is., Gulf of Alaska (1987)
Washington	Friday Harbor Laboratories, San Juan Islands (1974-75, 1977-83, 1986)
BC	Bamfield Marine Station, Vancouver Is. (1980 - present); Queen Charlotte Is. (1985)

Field Research Experience (Abroad)

Bermuda	Bermuda Biological Station, Ferry Reach (1996).
Asia	International Marine Biology Workshop, Hong Kong (1989).
UK	Marine Science Lab., University College of North Wales, Menai Bridge (1986).
Brazil	University of São Paulo Marine Laboratory, São Sebastião (1976).
Chile	Marine labs at: Universidad del Norte, Iquique; Universidad de Chile, Antofagasta; Universidad Católica, Montemar; Universidad Austral, Mehuin (1976); Universidad Católica de Chile, Las Cruces (1999).
Panama	Smithsonian Tropical Research Institute (1976).

Foreign Languages: French- basic reading & speaking, Spanish- basic speaking.

Citations Per Year in Science Citation Index (in parentheses: total citations / total papers)

1980-84: 101 (7.8)	1993: 119 (3.7)	1998: 272 (6.3)	2003: 261 (5.2)	2008: 306 (4.6)
1985-89: 232 (2.4)	1994: 82 (2.4)	1999: 276 (6.4)	2004: 283 (5.1)	2009: 255 (3.9)
1990: 87 (3.6)	1995: 117 (3.2)	2000: 301 (6.7)	2005: 274 (4.9)	
1991: 56 (2.0)	1996: 151 (4.1)	2001: 239 (5.0)	2006: 272 (4.6)	
1992: 62 (2.1)	1997: 234 (5.7)	2002: 261 (5.3)	2007: 314 (5.1)	

h index (Hirsch, 2005: number of papers that have received at least that many citations; 20= successful, 40= outstanding, ~45= new NAS members): 34 in 2009.

Presentations (*- invited; § - also chaired a session)

- 2010 * Western Washington University, Bellingham (May)
 * Centre for Evolutionary and Ecological Studies, Groningen Univ., Netherlands (April)
 * Institute of Biology (Seminar & Master Class), Leiden University, Netherlands (April)
 * Evolution & Ecology (Seminar & Master Class), Wageningen Univ., Netherlands (April)
 * Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam (April)
 * Evolutionary Morphology Series, University of Chicago (Apr.)
 * Society for Integrative and Comparative Biology, Seattle (Jan.)
- 2009 * Opening speaker for “*Through the Looking Glass: A Symposium on Asymmetry and Mirror-Images in Nature*”, Netherlands Centre for Biodiversity, Leiden (Nov.)
 * Institute of Biology, Leiden University, Netherlands (Nov.)
 * The Crustacean Society, Tokyo, Japan (Sept.)
 European Society for Evolutionary Biology, Turino, Italy (Aug.)
 * Canadian Society of Zoologists, Toronto, Ontario (May)
 * Dept of Biological Sciences, Darwin Day Celebration, Univ. of Alberta (Feb)
- 2008 * Department of Biology, Memorial University, St. Johns (Oct.)
 * Department of Biology, St. Francis Xavier University, Antigonish (Oct.)
 * School of Science & Technology, Cape Breton University, Sydney (Oct.)
 * Invited Plenary Lecture, Lorentz Center, Leiden University, Netherlands, in “*Symmetry as a Modern Scientific Concept: Historical and Philosophical Perspectives*” (March)
- 2007 Canadian Society of Ecology and Evolution, Toronto, Ontario (May)
 § Canadian Society of Zoologists, Montreal, Quebec (May)
- 2006 * Department of Biology, Dalhousie University (Sept.)
 * Biology Department, Acadia University (Sept.)
 * Gordon Research Conference, Organic Reactions & Processes, Bryant Univ. (July)
 § Canadian Society of Zoologists, Edmonton, Alberta (May)
 Dept of Biological Sciences- Systematics & Evolution series, Univ. of Alberta (April)
- 2005 * Department of Biology, University of Munich (Sept.)
 Dept of Biological Sciences- Systematics & Evolution series, Univ. of Alberta (April)
 § Canadian Society of Zoologists, Kingston, Ontario (May)
- 2004 * Department of Zoology, University of Toronto, Toronto (Nov.)
 * Department of Biology, McMaster University, Hamilton (Nov.)

- * Department of Biology, University of Puerto Rico (Sept.)
- Centennial Symposium, Friday Harbor Laboratories, Washington (June)
- § Canadian Society of Zoologists, Wolfville, Nova Scotia (May)
- Evolution of Developmental Diversity, Cold Spring Harbor Laboratories, New York (April)
- 2003 * Department of Biology, University of Victoria (Dec.)
- Bamfield Marine Station, WCUMBS† (Aug.)
- * Invited Plenary Lecture, 100th Anniversary University of Puerto Rico Graduate Student Research Symposium: “*Biology of the New Millennium*” (March)
- * Evolutionary Morphology Series, University of Chicago (Jan.)
- 2002 International Congress of Systematics and Evolutionary Biology, Patras, Greece (Sept.)
- 2001 * International Chirality Conference, Orlando, FL (July)
- International Workshop on Left/Right Asymmetry, Madrid, Spain (June)
- * International Conference on Ecosystem Health, Moscow, Russia (May)
- 2000 * Clemson University, Clemson (Oct.)
- Bamfield Marine Station, WCUMBS† (July)
- * German Zoological Society, Bonn, Germany (Invited Plenary Lecture, June)
- * Alberta Paleontological Association, Calgary (April)
- Department of Biological Sciences, University of Alberta, Edmonton (Jan.)
- 1999 * University of Colorado, Boulder (Dec.)
- Bamfield Marine Station, WCUMBS† (July)
- 1998 * Cornell University, Ithaca (Dec.)
- * Department of Ecology & Evolution, Yale University, New Haven (Dec.)
- * Department of Zoology, University of Toronto, Toronto (Nov.)
- * Department of Biology, Queen's University, Kingston (Nov.)
- Society for the Study of Evolution, University of British Columbia, Vancouver (June)
- 1997 * Entomological Society of Canada, University of Alberta, Edmonton (Oct.)
- Department of Biological Sciences, University of Alberta, Edmonton (Sept.)
- § Society for the Study of Evolution, University of Colorado, Boulder (June)
- 1996 University of Texas, Austin (Nov.)
- * Florida State University, Tallahassee (Nov.)
- Bamfield Marine Station, WCUMBS† (Aug.)
- * National Academy of Sciences (USA), Irvine, CA (Invited colloquium speaker, May)
- Harbor Branch Oceanographic Institution, Fort Pierce, FL (March)
- * Department of Biology, Florida International Univ., Miami, FL (March)
- * 76th Presidential Address, Western Society of Naturalists, Fort Worden, WA (Jan.)
- 1995 * SSE/Numerical Taxonomy Group (Invited Symposium Speaker), McGill Univ. (July)
- Society for the Study of Evolution, McGill University (July)
- 1994 Western Society of Naturalists, Monterey, CA (Dec.)
- Indiana Molec. Biol. Symp. “*Origin & Evolution of Animal Body Plans*”, Bloomington (Oct.)
- * Guest Lecturer, Molecular Approaches to Marine Ecology, Friday Harbor Labs (Aug.)
- * Evolutionary Morphology Series. University of Chicago (Apr.)
- 1993 Centenary Symposium, Malacological Society of London (Sept.)
- * Biotest: Current & Future Prospects (Biological Risk Assessment), Moscow, Russia (Aug.)
- * Developmental Instability: Its Origins and Evolutionary Implications, Tempe, AZ (June)
- 1992 * Chris Reed Memorial Symp.: Reproduction & Development of Marine Invertebrates (June)
- Canadian Soc. of Zoologists, St. Francis Xavier (May)
- * Department of Biology, University of Victoria (March)
- 1991 * Department of Zoology, University of British Columbia (Nov.)
- * International Ecological Toxicology Conf., Special session on Biotest, Seattle WA (Nov.)
- 1990 * Center for Population Biology (Short Course), University of California, Davis (Nov.)
- * Department of Zoology, University of California, Davis (Feb.)
- Department of Ecology and Evolutionary Biology, University of California, Irvine (Feb.)
- * Department of Biology, California State University, Los Angeles (Feb.)
- * Department of Biology, University of California, Los Angeles (March)
- * Canadian Soc. of Zoologists (Invited Symposium Speaker), Simon Fraser Univ. (May)
- 1989 Fourth International Marine Biological Workshop, Hong Kong (April)

- * International Symposium on Population Phenogenetics, Moscow, USSR (May)
- Tvärminne Zoological Station, University of Helsinki, Tvärminne, Finland (May)
- 1988 * Department of Zoology, University of Alberta (March)
- * Bamfield Marine Station, WCUMBS† (May)
- Society for the Study of Evolution, Asilomar, CA (June)
- * American Malacological Union, Charleston, SC (June)
- * International Symp. on Littorinid Biology, Tjärnö, Sweden, (1 invited, 1 contrib.; July)
- 1986 * Gatty Marine Laboratory, The University, St. Andrews, Scotland (Oct.)
- * Animal Biology Group, University College of North Wales, Bangor (Oct.)
- Friday Harbor Laboratories, University of Washington (May)
- 1985 * Western Society of Naturalists, Monterey, CA (Dec.)
- Society for the Study of Evolution, Chicago, IL. (June)
- * 6th Pacific Ecology Conference, Bamfield Marine Station (Feb.)
- 1984 * Dept. of Biological Sciences, Simon Fraser University (Oct.)
- Bamfield Marine Station, WCUMBS† (July)
- Friday Harbor Laboratories, University of Washington (July)
- * Dept. of Zoology, Oregon State University (May)
- * Hopkins Marine Station, Stanford University (May)
- * Dept. of Biological Sciences, University of California, Santa Barbara (May)
- * Dept. of Zoology, University of California, Berkeley (April)
- 1983 * Western Society of Naturalists, Simon Fraser University (Dec.)
- * Glacier Bay Science Symposium, Gustavos, AK (Sept.)
- 1982 * Dept. of Anatomy, University of Chicago (Sept.)
- * Dept. of Earth and Planetary Sciences, Johns Hopkins University (Sept.)
- * Dept. of Zoology, University of Maryland (Sept.)
- * Dept. of Zoology, Duke University (Sept.)
- Bamfield Marine Station, WCUMBS† (Aug.)
- International Symposium on Molluscan Genetics, New Orleans, LA (July)
- * Benthic Ecology Meeting, Harvard University (March)
- 1981 * Dept. of Biology, University of Calgary (Dec.)
- * Institute of Animal Resource Ecology, University of British Columbia (Sept.)
- Bamfield Marine Station, WCUMBS† (July)
- Benthic Ecology Meeting, Yale University (March)
- 1980 * Benthic Ecology Meeting, Williamsburg, Virginia (March)

† Western Canadian Universities Marine Biological Society

Publications: (please see attached list)

Publications: A. RICHARD PALMER

Refereed papers (** order of authorship alphabetical; other authors in bold are ARP students)

- 1) **Hinchliffe, R. & A.R. Palmer**. 2010.** Curious chiral cases of caddisfly larvae: Handed behavior, asymmetric forms, evolutionary history. *Integrative and Comparative Biology* (in press April 2010).
- 2) **Krause-Nehring, J., J.M. Starck & A.R. Palmer**. 2010. Juvenile colour polymorphism in the red rock crab, *Cancer productus*: Patterns, causes, and possible adaptive significance. *Zoology* (in press, Sept. 2009).
- 3) Neinhuis, S.**, **A.R. Palmer****, & C. Harley. 2010. Elevated CO₂ affects shell dissolution rate but not calcification rate in a marine snail. *Proceedings of the Royal Society of London. B.* (early access 10.1098/rspb.2010.0206).
- 4) **Neufeld, C. & A.R. Palmer**. 2010.** Learning, developmental plasticity, and the rate of morphological evolution. In: *Epigenetics* (B. Hallgrímsson & B.K. Hall, eds.) Elsevier. (in press, March 2009).
- 5) **Palmer, A.R.** 2010. Scale-eating cichlids: From hand(ed) to mouth. *Journal of Biology* 9(2):11.
- 6) Rosen, E., B. Schwarz & **A.R. Palmer**. 2009. Smelling the difference: Hermit crab responses to predatory and non-predatory crabs. *Animal Behaviour* 78: 691–695.
- 7) **Palmer, A.R.** 2009. Animal asymmetry. *Current Biology* 19 (12): R474-R477.
- 8) **Edgell, T.C., B.R. Lynch, G.C. Trussell & A.R. Palmer**. 2009. Experimental evidence for the rapid evolution of behavioral canalization in natural populations. *American Naturalist* 174 (2): 434-440.
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Computer animations

I wrote and directed the following computer animations for teaching invertebrate zoology. The animations were programmed by Heather Kroening & Gregg Dearborn. They may be viewed at: <http://www.biology.ualberta.ca/courses.hp/zool250/Z250.html>

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