ROBERT H. COWIE - CURRICULUM VITAE

Name: Robert Hulin Cowie

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Date of Birth: 29 January 1954

Place of birth: Cheshire, U.K.

Degrees: B.A. (Cambridge), M.A. (Cambridge), Ph.D. (Liverpool)

Nationality: British, naturalized U.S. citizen (dual citizenship)

EDUCATION

B.A. 1972-1975, University of Cambridge (Natural Sciences: Zoology) (Honours) (M.A. taken 1979)

Ph.D. 1976-1982, University of Liverpool (Zoology). Advisor: Prof. A.J. Cain

Postdoctoral 1982-1985, Dept. of Genetics and Biometry, University College London. Advisor: Dr. J.S. Jones

PROFESSIONAL APPOINTMENTS

2007-2013	Chair, Ecology, Evolution and Conservation Biology Graduate Program, University of Hawaii
2006-	Research Professor, Pacific Biosciences Research Center, University of Hawaii
2001-2006	Associate Research Professor, Pacific Biosciences Research Center, University of Hawaii
2001-	Graduate Faculty, Ecology, Evolution and Conservation Biology Graduate Program, University of
	Hawaii
2001-	Graduate faculty, Department of Zoology, University of Hawaii
1999-2001	Research Biologist, Department of Natural Sciences, Bishop Museum, Honolulu
1990-1999	Associate Research Biologist, Department of Natural Sciences, Bishop Museum, Honolulu
1985-1989	Head, Termite Ecology & Control Section, Overseas Development Natural Resources Institute UK
1982-1985	Postdoctoral fellow, Department of Genetics & Biometry, University College London, UK
1975-1982	Research assistant, Department of Zoology, University of Liverpool, UK

AFFILIATE, HONORARY AND OTHER POSITIONS

Foreign Specialist Research Fellow, Forestry and Forest Products Research Institute, Tsukuba,
Japan
Visiting Professor, Muséum national d'Histoire naturelle, Paris, France
Research Affiliate, Bishop Museum, Honolulu
Affiliate Graduate Faculty, Ecology, Evolution and Conservation Biology Graduate Program,
University of Hawaii
Affiliate Graduate Faculty, Department of Zoology, University of Hawaii
Honorary Research Fellow, Department of Genetics & Biometry, University College London, UK

MAJOR GRANTS AND CONTRACTS (since 1992)

- 2014 Japan Society for the Promotion of Science, Postdoctoral Advisor (\$107,600). Clarification of the invading process of freshwater apple snails in the genus *Pomacea*.
- 2013 National Science Foundation, Co-PI (\$25,000). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna. ROA (Research Opportunity Award) Supplement.
- 2013 National Science Foundation, PI (\$6,250). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2012 US Department of Agriculture, Co-PI (\$109,955). Post-harvest management of slugs and snails potentially carrying rat lungworm (*Angiostrongylus cantonensis*) on Hawaii's farms and gardens.
- 2012 National Science Foundation, PI (\$19,815). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. ROA (Research Opportunity Award) Supplement.
- 2012 National Science Foundation, PI (\$7,500). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2012 National Science Foundation, Co-PI (\$7,500). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna. REU (Research Experience for Undergraduates) Supplement.
- 2011 National Science Foundation, Co-PI (\$150,000, University of Hawaii portion \$77,877). Collaborative Research: U.S.-Uruguay-Brazil: IRES AMPLIFIED: Ampullariidae Model using Phylogeography, Laboratory Integration with Field Investigations into Ecology and Diversity.
- 2011 US Army Garrison Oahu, PI (\$49,684). Alien snail control.
- 2011 National Science Foundation, Co-PI (\$650,000). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna.

- 2011 National Science Foundation, PI (\$7,500). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2011 US Department of Agriculture, PI (\$48,000). Understanding and managing health risks associated with the nematode *Angiostrongylus cantonensis* the rat lungworm.
- 2010 US Army Garrison Oahu. Co-PI (\$58,813). Assessment of the current distribution, potential for continued spread, and population density of *Oxychilus alliarius* on Oahu, Hawaii.
- 2010 National Science Foundation, PI (\$499,999). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training.
- 2009 US Department of Agriculture, PI (\$64,624). Invasive alien species of terrestrial snails and slugs in Hawaii (year 6).
- 2008 Japan Society for the Promotion of Science, Postdoctoral Advisor (\$100,990). Impacts of alien ants and flatworms on native land snails in the Hawaiian Islands.
- 2008 US Department of Agriculture, PI (\$72,999). Invasive alien species of terrestrial snails and slugs in Hawaii (year 5).
- 2007 US Department of the Interior, PI (\$33,193). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 3).
- 2007 National Science Foundation EPSCoR REAP, Co-PI (\$29,325). Phylogeography of the endemic Hawaiian achatinellid land snails.
- 2007 National Science Foundation, PI (\$11,980). Dissertation research: Ecosystem services provided by terrestrial Mollusca in Hawaiian rainforests.
- 2007 US Department of Agriculture, PI (\$63,778). Invasive alien species of terrestrial snails and slugs in Hawaii (year 4).
- 2006 US Department of the Interior, PI (\$45,892). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 2).
- 2006 US Department of Agriculture, PI (\$54,187). Invasive alien species of terrestrial snails and slugs in Hawaii (year 3).
- 2005 US Department of the Interior, PI (\$27,613). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 1).
- 2005 US Department of Agriculture, PI (\$35,000). Invasive alien species of terrestrial snails and slugs in Hawaii (year 2).
- 2004 US Department of Agriculture, PI (\$35,000). Invasive alien species of terrestrial snails and slugs in Hawaii (year 1).
- 2004 US Department of Agriculture, PI (\$22,000). Economic impacts of apple snails on taro culture in Hawaii.
- 2003 National Science Foundation, PI (\$400,086). Revision and phylogeography of Pacific island succineid land snails.
- 2002 US Department of Agriculture, PI (\$118,329). Identity and origins of apple snail pests.
- 2002 State of Hawaii, PI (\$95,580). Development of a Safe Harbor Agreement in conjunction with restoration of Waahila Ridge, Oahu.
- 1999 CH2MHill, Co-PI (\$15,480). Invertebrate survey—Wa'ahila Ridge powerline installation EIS.
- 1999 Okamoto, Inc., Co-PI (\$45,025). Invertebrate survey—Stainback Highway.
- 1999 New Moon Corporation, PI (\$17,009). Environmental assessment—Bond Historic District, Kohala.
- 1998 US Geological Service, PI (\$18,705). Evaluation of development impacts to endangered snails (American Samoa).
- 1998 Okamoto, Inc., Co-PI (\$92,000). Invertebrate survey—New Hawai'i Island Correctional Facility EIS.
- 1997 National Science Foundation , PI (\$96,606). Non-marine Mollusca of Samoa.
- 1997 US Geological Service, PI (\$30,768). The land snails of the National Park of American Samoa.
- 1996 National Science Foundation, PI (\$265,829). Rehousing Bishop Museum's marine shell collection in acid-free conditions.
- 1996 Wil Chee Planning, Co-PI (\$147,541). Impacts of Construction of the Palau Compact Road: survey of the non-marine fauna of the island of Babeldaob.
- 1996 Rust Environment and Infrastructure, Co-PI (\$95,330). Saddle Road Project: assessment of the impacts on invertebrates (land snails, insects, and other arthropods).
- 1995 National Biological Service (now part of USGS), PI (\$42,000). A database of non-indigenous land and freshwater molluscs in Hawaii.
- 1992 National Science Foundation, PI (\$493,445). Rehousing Bishop Museum's land snail collections.

1992 The Nature Conservancy, PI (\$44,975). Land snail survey of the Pohakuloa Training Area, Hawaii. Also, I have received numerous small grants and contracts (under \$10,000 each; total c. \$70,000), most in relation to snails as agricultural pests, for surveys of snails in relation to development projects, and for identification and analysis of snail shells from archaeological sites.

AWARDS AND RECOGNITION

Ph.D. dissertation won the 1982 Annual Award of the Malacological Society of London Recognized by the University of Hawaii as a 2003-2004 leading researcher

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Malacological Society, Conchological Society of Great Britain and Ireland, Malacological Society of London, Pacific Science Association, Unitas Malacologica, Western Society of Malacologists.

Formerly British Ecological Society, Genetical Society, International Society for the Study of Social Insects, Society for the Study of Evolution, Sigma Xi, Systematics Association.

RESEARCH

Statement of research interests

The over-arching theme of my research is to understand the origins and determinants of non-marine biodiversity, both native and alien, primarily in the Pacific. Systematics provides the essential framework and conservation underlies all aspects of the research, which integrates a range of subdisciplines and approaches, including taxonomy, phylogenetics, genetic diversity, biogeography, invasion biology, and ecology. DNA sequencing and cladistic analyses are important techniques in much of this research. The four main focuses are:

• **Biodiversity** – Understanding the ecological determinants and evolutionary origins of the immense native Pacific island diversity. Systematics of apple snails.

<u>Current projects</u>: Nomenclature, systematics, phylogenetics, biogoegraphy, and origins of land snails throughout the Pacific. Evolution of shell size and shape in Pacific island land snail faunas. Systematics, phylogenetics, and biogeography of apple snails globally.

• **Invasion biology** – Documenting the spread and impacts, understanding the invasion dynamics, and ascertaining the origins, both phylogentic and anthropogenic, of alien species, primarily in the Pacific.

<u>Current projects</u>: Ampullariid snails as model invaders. Molecular and morphological diversity of invasive subulinid land snails and veronicellid slugs in Hawaii. Distribution and impacts of alien snails in Hawaii.

• Emerging disease ecology – Eosinophilic meningitis in Hawaii.

<u>Current project</u>: Geographic distribution of rat lungworm and its prevalence in native and alien snail/slug vectors in Hawaii.

Selected research presentations

- World Congress of Malacology (Ponta Delgada, 2013 [4 presentations, 1 invited], Phuket, 2010 [7 presentations, 1 invited], Antwerp, 2007, Vienna, 2001 [invited])
- 11th International Congress on Medical and Applied Malacology (Rio de Janeiro, 2012 [invited plenary, invited regular presentation])
- Instituto Oswaldo Cruz (Rio de Janeiro, 2012 [invited])
- The Wildlife Society (Waikoloa, 2011 [invited])
- Direcion Nacional de Recursos Acuaticos (Montevideo, 2010 [invited])
- AAAS (Hawaii, 2008, 3 presentations [invited])
- University of Nottingham (2008, invited)
- Japanese Ecological Society (Niigata, 2006 [invited])
- American Malacological Society (Seattle, 2006, Sanibel, 2004 [invited], Ann Arbor, 2003 [3 presentations, 1 invited], Charleston, 2002)
- 1 Simpósio Nacional de Coleções Científicas (Rio de Janeiro, 2005 [invited])
- Universidade Federal de Mato Grosso do Sul (Campo Grande, Brasil, 2005 [invited])
- Sociedade Brasileira de Malacologia (Rio de Janeiro, 2004 [invited])
- Expanding the Ark (American Museum of Natural History, New York, 2004)
- International Biogeography Society (Mesquite, Nevada, 2003)
- Society for Conservation Biology (Sydney, Australia, 1998 [invited]; Hilo, Hawaii, 2001)
- Malacological Society of Japan (Yamaguchi, 2000 [invited])
- Ecological Society of America (Utah, 2000)

Invited workshop participation

- Third international workshop on rat lungworms (Guangzhou, China, 2013)
- Rat lungworm disease a scientific workshop (Honolulu, Hawaii, 2011)
- 4th International Workshop on the biology of Ampullariidae (San Miguel de Tucumán, Argentina, 2010)
- Forestry and Forest Products Research Institute: Introduced species in Ogasawara (Tsukuba, Japan, 2006)
- Asia-Pacific Economic Cooperation: Management of the golden apple snail (Taiwan, 2004)
- US Department of Agriculture: Apple snails and other alien snails (Sacramento, California, 2001)
- National Science Foundation: Biotic Surveys and Inventories (Orcas Island, Washington, 2000)
- Committee for Conservation of Natural Resources of Nagashima: The nature of Nagashima (Japan, 2000)
- Global Invasive Species Program: Invasion pathways (Edgewater, Maryland, 1999)
- World Wildlife Fund: Biodiversity and conservation of the Galápagos (Galápagos Islands, Ecuador, 1999)
- International Rice Research Institute: Ecology and management of the golden apple snail (Thailand, 1997)

Expedition and overseas research experience

- 1976 Kenya, Tanzania termite ecology and distribution (Oxford University)
- 1983, 1984 Spain, Andorra, France land snail ecology and population genetics
- 1985 France grasshopper hybrid zone
- 1986, 1987 Ethiopia termites in crops, forestry and rangeland; training in termite biology/control
- 1986-1989 Sudan termite ecology and control (University of Khartoum)
- 1987, 1988 Yemen termites in crops
- 1989 Zimbabwe termites in crops
- 1989 Malawi soil pests of crops
- 1992 Samoa [formerly Western Samoa] land snail biodiversity
- 1992, 1998, 2001, 2008 American Samoa land snail biodiversity, research and training, endangered species
- 1995 Cambodia nonindigenous "apple snails" as rice pests
- 1996 Palau land snail biodiversity
- 2004, 2005, 2012 Brasil freshwater snail systematics/phylogenetics
- 2008, 2009 UK land snail population genetics

I have also traveled widely in Europe, Turkey, Egypt, India, the Philippines, Japan, Thailand, Taiwan, China, Australia, New Zealand, Argentina, Uruguay and USA. I have undertaken overseas museum research in France, UK, Australia and Uruguay.

INSTRUCTION

Courses taught

- Zoology field course (University of Liverpool, 1976-82 [every year])
- Environmental Biology field course (University of Liverpool, 1978)
- Population Genetics field course (in Spain) (University College London, 1984-5)
- Termite Biology and Control (in Ethiopia) (ODNRI, 1987)
- Advanced Systematics and Evolution (ZOOL 691I) (University of Hawaii, 1995-9 [8 consecutive semesters])
- Biological Invasions (ZOOL 691E) (University of Hawaii, 1996)
- Proposal Writing (ZOOL 691E) (University of Hawaii, 2003, 2006)
- Mechanisms of Evolution (ZOOL 719) (University of Hawaii, 2005)
- Foundations of Ecology (ZOOL 739) (University of Hawaii, 2009)

Guest lectures

- Evolutionary Biology (University College London, 1983)
- Ecological Genetics (University College London, 1984)
- Pest Management (Imperial College London, Silwood Park, 1986)
- Applied Entomology (Imperial College London, Silwood Park, 1987)
- Storage of Durable Agricultural Products in the Tropics (ODNRI, 1988)
- Environmental Studies (University College Cardiff, 1988)
- Biogeography (ZOOL 485) (University of Hawaii, 1996)
- Invasion Biology (BOT 651) (University of Hawaii, 1997, 1999, 2001, 2003, 2005, 2007, 2009)
- Conservation Biology (BOT/ZOOL 690) (University of Hawaii, 1997, 1999, 2002, 2003, 2012)
- Ecology, Evolution and Conservation in Hawaii (ZOOL 750) (University of Hawaii, 1998)
- Focus on Agriculture (Ag 194) (distance learning on public tv; University of Hawaii, Hilo, 1999)
- Natural History of the Hawaiian Islands (BOT/ZOOL 450) (University of Hawaii, 2001-13 [except 2007])
- Foundations in Plant and Environmental Protection Services (PEPS 690) (University of Hawaii, 2002)

- Biocontrol of Invasives (PEPS 422) (University of Hawaii, 2002)
- Invasive Pest Species (PEPS 345) (University of Hawaii, 2004, 2006, 2008, 2010, 2012, 2014)
- Environmental Problem Solving (NREM 491) (University of Hawaii, 2005)
- Biology of the Invertebrates (ZOOL 475) (University of Hawaii, 2005, 2006, 2007, 2008)
- Interdisciplinary Studies (IS650/651) (University of Hawaii, 2007)
- Grant Writing and Your Career in Science (BOT 698) (University of Hawaii, 2010)
- Foundations of Conservation and Natural Resources (NREM 691) (University of Hawaii, 2010)
- Introduction to Research (HON 495) (University of Hawaii, 2010)
- Infectious Disease Micro I (TRMD 603) (University of Hawaii, 2011)

Students and postdoctoral researchers

- Undergraduate student advised (University of Liverpool):
 - L.R. Noble, 1980-1
- Undergraduate student advised (University College London):
 - D. Johnson, 1984-5
- Undergraduate students advised (University of Hawaii):
 - S. Arnasson, 2007-2008
 - J. Bedrosian, 2007-2008
 - C. L. Brown, 2006
 - J. R. Kim, 2008-2009
 - A. Kong, 2011-2013
 - J. Léon, 2012-2014
 - T. J. Skelton, 2008-2010
 - C.T. Tran, 2005-2007
 - M. Wood, 2009
 - K.L. Coleman, 2011-2012
 - T. Durkan, 2011-2012
 - D. Ressler, 2011-2014
 - E. Rogers, 2012-2013
 - T. Takebayashi, 2011-2012
 - B. Wilson, 2012
 - C. Yee, 2011-2012
 - E. Yokote, 2013-2014
- Graduate students advised (ODNRI/University of London):
 - H.I.J. Black, Ph.D., 1986-9
 - J.W.M. Logan, M.Sc., 1985-9
 - M.J. Pearce, Ph.D., 1985-9
- Graduate students advised (University of Hawaii)
 - D.K. Britton, 1998-2000 (transferred to and gained Ph.D. from the University of Texas at Arlington, US Fish & Wildlife Service)
 - R. Callan, 2002-3 (transferred to and gained Ph.D. from the University of Georgia, Assistant Professor SUNY-ESF)
 - P.A. Curry, graduated 2012, M.S. Zoology
 - D. Gary, expected graduation 2015, M.S. Zoology
 - K.A. Hayes, graduated 2009, Ph.D. Zoology (Assistant Professor Howard University)
 - A.F. Johnson, 2007-8 (transferred to Ph.D. program at Washington State University)
 - J.R. Kim, graduated 2013, M.S. Zoology
 - W.M. Meyer, graduated 2009, Ph.D. Zoology (Assistant Professor Pomona College)
 - R.J. Rundell, graduated 2001, M.S. Zoology (Assistant Professor SUNY-ESF)
- Graduate student committees (University of Hawaii)
 - J. Birch, graduated 2011, Ph.D. Botany
 - R. DeFelice, 1998-2003, Zoology (withdrew from Ph.D. program)
 - P.A. deMoura, 2009-2012, Zoology (withdrew from Ph.D. program)
 - L.L.Z. Durand, 2000, Botany (withdrew from Ph.D. program)
 - J.E. Garb, graduated 1998, M.S. Zoology
 - L. Gutierrez, graduated 2000, Ph.D. Zoology
 - L. Hadway, graduated 1998, M.S. Zoology

- W. Haines, 2004-2006, M.S. Entomology (transferred to Ph.D. program)
- A.T. Handler, graduated 2005, M.S. Zoology
- A.L. Heddle, graduated 1998, M.S. Zoology
- S. Joe, graduated 2006, M.S. Botany
- T. Koehler, graduated, 2007, M.S. Botany
- C. Lohr, graduated 2012, Ph.D. Natural Resources and Environmental Management
- M. Lurie, expected graduation 2014, Ph.D. Botany
- T. Male, graduated 2001, Ph.D. Zoology
- G. Roberts, graduated 2001, Ph.D. Zoology
- R. Rhodes, expected graduation 2014, Ph.D. Zoology
- L. Rodman, graduated 2004, Ph.D. Zoology
- S. Shaw, 2009-2012, Botany (withdrew from Ph.D. program)
- B.D. Smith, 1996-2000, Zoology (withdrew from Ph.D. program)
- J. Taylor, graduated 2007, M.S. Natural Resources and Environmental Management
- K. Tice, graduated 2009, M.S. Zoology
- A.Y. Yoshinaga, expected graduation 2014, Ph.D. Botany
- Visiting graduate student advised
 - L. Lach (Cornell University), graduated 2004, Ph.D.
- Postdoctoral researchers advised (University of Hawaii)
 - B.S. Holland, 2003-2007
 - S. Sugiura, 2008-2010
 - K.A. Hayes, 2010-2013
 - S. Matsukura, 2014
 - N.W. Yeung, 2010-2014
 - C. Régnier, 2012-2014

SERVICE

Professional organization activities

- Council, Malacological Society of London: 1983-1986
- Director, Hawaiian Malacological Society: 1992-1995 (President: 1993, 1994)
- Mollusc Specialist Group, International Union for Conservation of Nature: 1994-present
- American Malacological Society Conservation Committee: 1994-present (Chair: 1995-2004)
- Council of Systematic Malacologists (Councilor, Western U.S.): 1995-1998
- Council, American Malacological Society: 1997-1999
- Invasive Species Specialist Group, International Union for Conservation of Nature: 1998-present
- President, Sigma Xi, University of Hawaii Chapter: 2005-2008

Editorial activities

- Editor, Newsletter of the IUCN/SSC Mollusc Specialist Group: 1994-present
- Associate Editor, Biodiversity and Conservation: 2006-present (Editorial Board 2003-present)
- Associate Editor, *Diversity and Distributions*: 2007-present (Editorial Board 2003-present)
- Associate Editor, Biological Invasions: 2009-present
- Assistant Editor, Journal of Conchology, and Conchological Society Special Publications: 1979-1980
- Science Advisor, Hawaiian Shell News: 1990-1997
- Editorial Board, Malacologia: 1991-present
- Editorial Board, Malacological Review: 1991-present
- Editorial Board, Journal of Medical and Applied Malacology: 1991-present
- Editorial Board, Journal of the Malacozoological Association of Yamaguchi, Japan: 1997-2008
- Editorial Board, Oryx: 1998-present
- Editorial Board, The Nautilus: 2001-present
- Editorial Board, Zoological Science: 2003-2009
- Editorial Board, American Malacological Bulletin: 2003-present
- Editorial Board, Pacific Science: 2004-present

Symposia/Conferences

- Co-organized the "Third International Workshop on Rat Lungworms", Guangzhou, China, $2013\,$
- Organized and edited the proceedings of "Rat lungworm disease: an international workshop", Honolulu, 2011 (published in the *Hawaii Journal of Medicine and Public Health*)

- Co-edited the Proceedings of the Asia-Pacific Economic Cooperation workshop on the "Management of the golden apple snail", Taiwan, 2004 (published as a stand-alone proceedings volume)
- Organized and edited the proceedings of a symposium on "Non-marine alien mollusks the future is a foreign ecosystem", American Malacological Society, Ann Arbor, 2003 (published in *American Malacological Bulletin*)
- Society for Conservation Biology 2001 meeting (Hilo, Hawaii), Scientific Program Committee
- Organized and edited the proceedings of a symposium on the "Impact of alien species on island ecosystems", 17th Pacific Science Congress, Honolulu, 1991 (published in *Pacific Science*)
- Co-organized and edited the proceedings of the "1st International Symposium on fungus-growing termites and the tropical environment", Nairobi, Kenya, 1987 (published in *Sociobiology*)

Advisory panel/group

- Panelist, NSF Doctoral Dissertation Improvement Grants: 2012, 2013
- Technical Advisory Group, \$43 million UNDP project on "Invasive species in the Galápagos": 2003-2007
- Panelist, NSF Research Collections in Systematics and Ecology: 1996, 1997

Committees at the University of Hawaii

- Ecology, Evolution and Conservation Biology graduate program, admissions committee (1995-7; Chair, 1996-7)
- Ecology, Evolution and Conservation Biology graduate program, graduate curriculum committee (1997-8, 2013-14)
- Ecology, Evolution and Conservation Biology graduate program, grants committee (1998-2006; Chair, 2000-6)
- Department of Zoology, diagnostic examination committee (1997, 1999, 2001, 2006)
- Department of Zoology, ad hoc committee on admissions (2002)
- University of Hawaii Hilo / University of Hawaii Manoa NSF EPSCoR grant working group (2002-2006)
- Department of Zoology/Biology, graduate admissions committee (2003, 2004, 2013, 2014)
- Pacific Biosciences Research Center, departmental personnel committee (2004-present, Chair, 2006-7, 2011-12)
- Tenure and promotion review committee (2007, 2011)
- Department of Botany, faculty search committee (2008)
- Manoa Faculty Senate, Committee on Administration and Budget (2009-2014, vice-chair 2010-11)
- Pacific Biosciences Research Center, senior faculty/staff team (2009-present)
- Department of Biology, Graduate Instruction Committee (2011)
- Pacific Biosciences Research Center, faculty search committee (2013-2014)
- Pacific Biosciences Research Center, director search committee (2014)

Grant proposals reviewed (18 agencies)

- American Philosophical Society, Australian Research Council, British Ecological Society, Environment and Conservation Fund (Hong Kong), Hawaiian Malacological Society, National Geographic Society, National Research Foundation (South Africa), National Science Foundation, Natural Environment Research Council (UK), Netbiome, Netherlands Organization for Scientific Research, Pennsylvania Department of Conservation and Natural Resources, Research Grants Council (Hong Kong), Sea Grant College Program, Smithsonian Institution Office of Fellowships and Grants, U.S. Civilian Research and Development Foundation, U.S. Fish and Wildlife Service, University of Hawaii (Edmondson Fund)

Journal articles reviewed (119 journals)

- Acta Oecologica, African Journal of Ecology, American Malacological Bulletin, American Naturalist, Animal Behaviour, Animal Conservation, Annals of Botany, Aquatic Ecology, Aquatic Invasions, Aquatic Sciences, Archiv für Molluskenkunde, Australian Journal of Experimental Agriculture, Biochemical Genetics, Biodiversity and Conservation, Biological Conservation, Biological Invasions, Biological Journal of the Linnean Society, Biology Letters, Biota Neotropica, Biotropica, Bishop Museum Occasional Papers, BMC Evolutionary Biology, Bulletin of Entomological Research, Bulletin of the Museum of Comparative Zoology, Caribbean Journal of Science, Cladistics, Conservation Biology, Conservation Genetics, Contributions to Zoology, Crop Protection, Current Biology, Diversity and Distributions, East African Agriculture and Forestry Journal, Ecologia Mediterranea, Ecological Entomology, Ecological Research, Emerging Infectious Diseases, Endangered Species Research, Estuaries and Coasts, Evolution, Freshwater Biology, Geography Compass, Geology, Global Change Biology, Global Ecology and Biogeography, Hawaii Journal of Medicine and Public Health, Heredity, Hydrobiologia, Iberus, Insects, Insect Science and its Application, Integrative & Comparative Biology, International Journal of Zoology, Invertebrate Biology, Invertebrate Reproduction and Development, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Arid Environments, Journal of Biogeography, Journal of Conchology, Journal of Experimental Zoology, Journal of Heredity, Journal of the Malacozoological Association of Yamaguchi, Journal of the Marine Biological Association, Journal of Medical and Applied Malacology, Journal of Molluscan Studies, Journal of the North American Benthological Society, Journal of Parasitology,

Journal of Pest Science, Journal of Soil Science, Journal of Thermal Biology, Journal of Tropical Ecology, Journal of Zoology, Limnologica, Malacologia, Malacological Review, Mitteilungen aus dem Museum für Naturkunde in Berlin (Zoologische Reihe), Molecular Ecology, Molecular Phylogenetics and Evolution, Molluscan Research, Natural Areas Journal, Nature Communications, Nemouria, Oecologia, Oryx, Pacific Science, Pakistan Journal of Agricultural Sciences, Palaeogeography—Palaeoclimatology—Palaeoecology, Paleobiology, Paleontological Research, Pedobiologia, Pesticide Science, PLoS One, Population Ecology, Proceedings of the Academy of Natural Sciences of Philadelphia, Proceedings of the Biological Society of Washington, Proceedings of the Royal Society of London B, Qatar University Science Journal, Revista Científica UDO Agrícola, Ruthenica, Sociobiology, Soil Biology and Biochemistry, South Pacific Journal of Natural and Applied Sciences, Symbiosis, The Festivus, The Nautilus, The Veliger, Trends in Ecology and Evolution, Tropical Pest Management, Tuhinga: Records of the Museum of New Zealand Te Papa Tongarewa, Turkish Journal of Zoology, Wetlands, Zoological Journal of the Linnean Society, Zoologia, Zoologia Neocaledonica, Zoological Science, Zoological Studies, Zoosystema, Zootaxa.

Ph.D. Dissertations reviewed as external examiner

- University of Tasmania (2003)
- University of Adelaide (2003)
- University of Nottingham (2008, 2009)
- University of the West Indies, Mona (2008)
- Muséum nationale d'Histoire naturelle, Paris (2011)

PUBLICATIONS

Books (4)

Cowie, R.[H.] 2014. Journey to a Waterfall. A Biologist in Africa. Lulu, Raleigh. x + 279 p.

Staples, G.W. & Cowie, R.H. (eds.) 2001. *Hawai'i's Invasive species. A guide to invasive plants and animals in the Hawaiian Islands*. Mutual Publishing & Bishop Museum Press, Honolulu. xii + 116 p.

Cowie, R.H. 1998. Catalog of the nonmarine snails and slugs of the Samoan Islands. Bishop Museum Bulletin in Zoology 3. Bishop Museum Press, Honolulu. viii + 122 p.

Cowie, R.H., Evenhuis, N.L. & Christensen, C.C. 1995. *Catalog of the native land and freshwater molluscs of the Hawaiian Islands*. Backhuys Publishers, Leiden. vi + 248 pp.

Journal articles (103)

- Kim, J.R., Hayes, K.A., Yeung, N.W. & Cowie, R.H. 2014. Diverse gastropod hosts of *Angiostrongylus cantonensis*, the rat lungworm, globally and with a focus on the Hawaiian Islands. *PLoS ONE* 9(5): e94969.
- Durkan, T.H., Yeung, N.W., Meyer, W.M., III, Hayes, K.A. & Cowie, R.H. 2013. Evaluating the efficacy of land snail survey techniques in Hawaii: implications for conservation throughout the Pacific. *Biodiversity and Conservation* 22: 3223-3232.
- Hawksworth, D.L. & Cowie, R.H. 2013. The discovery of historically extinct, but hitherto undescribed, species: an under-appreciated element in extinction-rate assessments. *Biodiversity and Conservation* 22: 2429-2432.
- Meyer, W.M., III, Ostertag, R. & Cowie, R.H. 2013. Influence of terrestrial molluscs on litter decomposition and nutrient release in a Hawaiian rain forest. *Biotropica* 45(6): 719-727. [Editor's choice]
- **Cowie, R.H.** 2013. Biology, systematics, life cycle, and distribution of *Angiostrongylus cantonensis*, the cause of rat lungworm disease. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 6-9.
- **Cowie, R.H.** 2013. Pathways for transmission of angiostrongyliasis and the risk of disease associated with them. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 70-74.
- Yeung, N.W., Hayes, K.A. & Cowie, R.H. 2013. Effects of washing produce contaminated with the snail and slug hosts of *Angiostrongylus cantonensis* with three common household solutions. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 83-86.
- **Cowie, R.H.** & Héros, V. 2012. Annotated catalogue of the types of Ampullariidae (Mollusca: Gastropoda) in the Muséum national d'Histoire naturelle, Paris, with lectotype designations. *Zoosystema* 34(4): 793-824.
- Hayes, K.A., Cowie, R.H., Thiengo, S.C. & Strong, E.E. 2012. Comparing apples with apples: clarifying the identities of two highly invasive Neotropical Ampullariidae (Caenogastropoda). *Zoological Journal of the Linnean Society* 166: 723-753.
- **Cowie, R.H.**, Hollyer, J.R., da Silva, A.J., Hollingsworth, R.G., Dixon, M.D., Eamsobhana, P. *et al.* 2012. Workshop on research priorities for management and treatment of angiostrongyliasis. *Emerging Infectious Diseases* 18(12): [Internet]. December 2012.

- Hayes, K.A., Yeung, N.W., Kim, J.R. & Cowie, R.H. 2012. New records of alien Gastropoda in the Hawaiian Islands: 1996-2010. *Bishop Museum Occasional Papers* 112: 21-28.
- Meyer, W.M., III & Cowie, R.H. 2011. Distribution, movement, and micro-habitat use of the introduced predatory snail *Euglandina rosea* in Hawaii: implications for management. *Invertebrate Biology* 130(4): 325-333.
- **Cowie, R.H.** 2011. *Cornu* Born, 1778 (Mollusca: Gastropoda: Pulmonata: Helicidae): request for a ruling on the availability of the generic name. *Bulletin of Zoological Nomenclature* 68(2): 97-104.
- Meyer, W.M., III, Ostertag, R. & Cowie, R.H. 2011. Macro-invertebrates accelerate litter decomposition and nutrient release in a Hawaiian rainforest. *Soil Biology and Biochemistry* 43: 206-211.
- Sugiura, S., Holland B.S. & Cowie, R.H. 2011. Predatory behaviour of newly-hatched *Euglandina rosea*. *Journal of Molluscan Studies* 77: 101-102.
- Meyer, W.M., III & Cowie, R.H. 2010. Feeding preference of two introduced predatory snails and their conservation implications. *Malacologia* 53(1): 135-144.
- Meyer, W.M., III & Cowie, R.H. 2010. Invasive temperate species are a threat to tropical island biodiversity. *Biotropica* 42(6): 732-738.
- Wood, K.R. & Cowie, R.H. 2010. Land snail records for Mokapu Islet, Moloka'i, Hawaiian Islands. *Bishop Museum Occasional Papers* 108: 53-54.
- **Cowie, R.H.**, Dillon, R.T., Jr., Robinson, D.G. & Smith, J.W. 2009. Alien non-marine snails and slugs of priority quarantine importance in the United States: a preliminary risk assessment. *American Malacological Bulletin* 27(1/2): 113-132.
- Hayes, K.A., Cowie, R.H. & Thiengo, S.C. 2009. A global phylogeny of apple snails: Gondwanan origin, generic relationships and the influence of outgroup choice (Caenogastropoda: Ampullariidae). *Biological Journal of the Linnean Society* 98: 61-76.
- Hayes, K.A., Cowie, R.H., Jørgensen, A., Schultheiß, R., Albrecht, C. & Thiengo, S.C. 2009. Molluscan models in evolutionary biology: apple snails (Gastropoda: Ampullariidae) as a system for addressing fundamental questions. *American Malacological Bulletin* 27(1/2): 47-58. [invited; cover illustration]
- Holland, B.S. & Cowie, R.H. 2009. Land snail models in island biogeography: a tale of two snails. *American Malacological Bulletin* 27(1/2): 59-68. [invited]
- **Cowie, R.H.,** Hayes, K.A., Tran, C.T. & Meyer, W.M., III. 2008. The horticultural industry as a vector of alien snails and slugs: widespread invasions in Hawaii. *International Journal of Pest Management* 54(4): 267-276. ['editor's choice']
- **Cowie, R.H.** & Holland, B.S. 2008. Molecular biogeography and diversification of the endemic terrestrial fauna of the Hawaiian Islands. *Philosophical Transactions of the Royal Society of London B* 363(1508): 3363-3376.
- **Cowie, R.H.** & Wood, K.R. 2008. The land snails of the island of Lehua, Hawaiian Islands. *Bishop Museum Occasional Papers* 100: 50-52.
- Gruner, D.S., Gotelli, N.J., Price, J.P. & **Cowie, R.H.** 2008. Does species diversity drive speciation: a reassessment with the Hawaiian biota. *Ecography* 31(2): 279-285.
- Hayes, K.A., Joshi, R.C., Thiengo, S.C. & Cowie, R.H. 2008. Out of South America: multiple origins of non-native apple snails in Asia. *Diversity and Distributions* 14(4): 701-712 [cover illustration].
- Holland, B.S., Christensen, C.C., Hayes, K.A. & Cowie, R.H. 2008. Biocontrol in Hawaii: a response to Messing (2007). *Proceedings of the Hawaiian Entomological Society* 40: 81-83.
- Tran, C.T., Hayes, K.A. & **Cowie, R.H.** 2008. Lack of mitochondrial DNA diversity in invasive apple snails (Ampullariidae) in Hawaii. *Malacologia* 50(1-2): 351-357.
- **Cowie, R.H.,** Hayes, K.A., Tran, C.T. & Levin, P. 2007. Distribution of the invasive apple snail *Pomacea canaliculata* (Lamarck) in the Hawaiian Islands (Gastropoda: Ampullariidae). *Bishop Museum Occasional Papers* 96: 48-51.
- Hayes, K.A., Tran, C.T. & Cowie, R.H. 2007. New records of alien Mollusca in the Hawaiian Islands: nonmarine snails and slugs (Gastropoda) associated with the horticultural trade. *Bishop Museum Occasional Papers* 96: 54-63.
- Holland, B.S. & **Cowie, R.H.** 2007. A geographic mosaic of passive dispersal: population structure in the endemic Hawaiian amber snail *Succinea caduca* (Mighels, 1845). *Molecular Ecology* 16(12): 2422-2435 [cover illustration].
- Rawlings, T.A., Hayes, K.A., **Cowie, R.H.** & Collins, T.M. 2007. The identity, distribution, and impacts of non-native apple snails in the continental United States. *BMC Evolutionary Biology* 7: 97 [14 p.] [published on line doi:10.1186/1471-2148-7-97; designated as 'highly accessed'].
- Thiengo, S.C., Faraco, F.A., Salgado, N.C., **Cowie, R.H.** & Fernandez, M.A. 2007. Rapid spread of an invasive snail in South America: the giant African snail, *Achatina fulica*, in Brasil. *Biological Invasions* 9: 693-702.

- Holland, B.S. & Cowie, R.H. 2006. New island records of an endemic Hawaiian land snail species, *Succinea caduca* Mighels (Gastropoda: Pulmonata: Succineidae). *Bishop Museum Occasional Papers* 88: 58-60.
- **Cowie, R.H.** & Holland B.S. 2006. Dispersal is fundamental to biogeography and the evolution of biodiversity on oceanic islands. *Journal of Biogeography* 33: 193-198 [guest editorial].
- **Cowie, R.H.** 2005. Alien non-marine molluses in the islands of the tropical and subtropical Pacific: a review. *American Malacological Bulletin* 20(1/2): 95-103.
- **Cowie, R.H.** 2004. Disappearing snails and alien invasions: the biodiversity/conservation interface in the Pacific. *Journal of Conchology Special Publications* 3: 23-37.
- **Cowie, R.H.** & Grant-Mackie, J.A. 2004. The land snail fauna of the Mé Auré cave (WMD007), Moindou, New Caledonia: human introductions and faunal change. *Pacific Science* 58(3): 447-460.
- **Cowie, R.H.,** Cazzaniga, N.J. & Glaubrecht, M. 2004. The South American Mollusca of Johann Baptist Ritter von Spix and their publication by Johann Andreas Wagner. *The Nautilus* 118(2): 71-87.
- Lydeard, C., Cowie, R.H., Ponder, W.F., Bogan, A.E., Bouchet, P., Clark, S., Cummings, K.S., Frest, T.J., Gargominy, O., Herbert, D.G., Hershler, R., Perez, K., Roth, B., Seddon, M., Strong, E.E. & Thompson, F.G. 2004. The global decline of nonmarine mollusks. *BioScience* 54(4): 321-330.
- Rundell, R.J. & Cowie, R.H. 2004. Preservation of species diversity and abundances in Pacific island land snail death assemblages. *Journal of Conchology* 38(2): 155-170.
- Rundell, R.J., Holland, B.S. & Cowie, R.H. 2004. Molecular phylogeny and biogeography of the endemic Hawaiian Succineidae (Gastropoda: Pulmonata). *Molecular Phylogenetics and Evolution* 31: 246-255.
- **Cowie, R.H.** & Robinson, A.C. 2003. The decline of native Pacific island faunas: changes in status of the land snails of Samoa through the 20th century. *Biological Conservation* 110: 55-65.
- Cowie, R.H. & Thiengo, S.C. 2003. The apple snails of the Americas (Mollusca: Gastropoda: Ampullariidae: *Asolene, Felipponea, Marisa, Pomacea, Pomella*): a nomenclatural and type catalog. *Malacologia* 45(1): 41-100.
- Rundell, R.J. & Cowie, R.H. 2003. Growth and reproduction in Hawaiian succineid land snails. *Journal of Molluscan Studies* 69(3): 288-289.
- **Cowie, R.H.** 2002. Invertebrate invasions on Pacific islands and the replacement of unique native faunas: a synthesis of the land and freshwater snails. *Biological Invasions* 3(3)[2001]: 119-136.
- **Cowie, R.H.** & Rundell, R.J. 2002. The land snails of a small tropical Pacific island, Aunu'u, American Samoa. *Pacific Science* 56(2): 143-147.
- **Cowie, R.H.,** Rundell, R.J., Mika, F. & Setu, P. 2002. The endangered partulid tree snail *Samoana thurstoni* on Olosega and the land snail diversity of the Manu'a Islands, American Samoa. *American Malacological Bulletin* 17(1/2): 37-43.
- **Cowie, R.H.** 2001. Can snails ever be effective and safe biocontrol agents? *International Journal of Pest Management* 47(1): 23-40.
- Cowie, R.H. 2001. Decline and homogenization of Pacific faunas: the land snails of American Samoa. *Biological Conservation* 99(2): 207-222.
- **Cowie, R.H.** & Cook, R.P. 2001. Extinction or survival: partulid tree snails in American Samoa. *Biodiversity and Conservation* 10(2): 143-159.
- **Cowie, R.H.** & Evenhuis, N.L. 2001. *Achatinellastrum* Pfeiffer, 1854 and Achatinellidae Gulick, 1873 (Mollusca: Gastropoda): proposed conservation. *Bulletin of Zoological Nomenclature* 58(3): 188-192.
- **Cowie, R.H.**, Kabat, A.R. & Evenhuis, N.L. 2001. *Ampullaria canaliculata* Lamarck, 1822 (currently *Pomacea canaliculata*; Mollusca, Gastropoda): proposed conservation of the specific name. *Bulletin of Zoological Nomenclature* 58(1): 13-18.
- Lach, L., Britton, D.K., Rundell, R.J. & Cowie, R.H. 2001. Food preference and reproductive plasticity in an invasive freshwater snail. *Biological Invasions* 2(4)[2000]: 279-288.
- **Cowie, R.H.** 2000. New records of alien land snails and slugs in the Hawaiian Islands. *Bishop Museum Occasional Papers* 64: 51-53.
- Cowie, R.H. & Smith, B.D. 2000. Arboreal Neritidae. *The Veliger* 43(1): 98-99.
- **Cowie, R.H.** 1999. New records of alien nonmarine mollusks in the Hawaiian Islands. *Bishop Museum Occasional Papers* 59: 48-50.
- Cook, L.M., **Cowie, R.H.** & Jones, J.S. 1999. Change in morph frequency in the snail *Cepaea nemoralis* on the Marlborough Downs. *Heredity* 82: 336-342.
- Lach, L. & **Cowie, R.H.** 1999. The spread of the introduced freshwater apple snail *Pomacea canaliculata* (Lamarck) (Gastropoda: Ampullariidae) on Oʻahu, Hawaiʻi. *Bishop Museum Occasional Papers* 58: 66-71.

- Asami, T., **Cowie, R.H.** & Ohbayashi, K. 1998. Evolution of mirror images by sexually asymmetric mating behavior in hermaphroditic snails. *The American Naturalist* 152(2): 225-236.
- **Cowie, R.H.** 1998. Patterns of introduction of non-indigenous non-marine snails and slugs in the Hawaiian Islands. *Biodiversity and Conservation* 7(3): 349-368.
- **Cowie, R.H.** 1998. New records of nonindigenous land snails and slugs in the Hawaiian Islands. *Bishop Museum Occasional Papers* 56: 60.
- **Cowie, R.H.** & Jones, J.S. 1998. Gene frequency changes in *Cepaea* snails on the Marlborough Downs over 25 years. *Biological Journal of the Linnean Society* 65(3): 233-255.
- **Cowie, R.H.** 1997. Catalog and bibliography of the nonindigenous nonmarine snails and slugs of the Hawaiian Islands. *Bishop Museum Occasional Papers* 50: 1-66.
- **Cowie, R.H.** 1997. *Pila* Röding, 1798 and *Pomacea* Perry, 1810 (Mollusca, Gastropoda): proposed placement on the Official List, and Ampullariidae Gray, 1824: proposed confirmation as the nomenclaturally valid synonym of Pilidae Preston, 1915. *Bulletin of Zoological Nomenclature* 54(2): 83-88.
- Cowie, R.H. 1996. Variation in species diversity and shell shape in Hawaiian land snails: in situ speciation and ecological relationships. *Evolution* 49(6)[1995]: 1191-1202.
- **Cowie, R.H.** 1996. New records of introduced land and freshwater snails in the Hawaiian Islands. *Bishop Museum Occasional Papers* 46: 25-27.
- **Cowie, R.H.** 1995. Identity, distribution and impacts of introduced Ampullariidae and Viviparidae in the Hawaiian Islands. *Journal of Medical and Applied Malacology* 5[1993]: 61-67.
- **Cowie, R.H.,** Nishida, G.M., Basset, Y. & Gon, S.M., III. 1995. Patterns of land snail distribution in a montane habitat on the island of Hawaii. *Malacologia* 36(1-2): 155-169.
- Evenhuis, N.L. & Cowie, R.H. 1995. *Tropidoptera* Ancey, 1889 (Mollusca, Gastropoda): proposed designation of *Endodonta wesleyi* Sykes, 1896 as the type species. *Bulletin of Zoological Nomenclature* 52(2): 148-149.
- **Cowie, R.H.,** Christensen, C.C. & Evenhuis, N.L. 1994. *Nesopupa* Pilsbry, 1900 (Mollusca; Gastropoda): proposed conservation. *Bulletin of Zoological Nomenclature* 51(3): 217-218.
- Cowie, R.H. 1993. Yoshio Kondo: bibliography and list of taxa. Bishop Museum Occasional Papers 32: 1-10.
- **Cowie, R.H.** 1992. Variation in thermal behaviour associated with shell size but not shell pattern morph in the land snail *Theba pisana*. *Journal of Molluscan Studies* 58(2): 229-231.
- **Cowie, R.H.** 1992. Evolution and extinction of Partulidae, endemic Pacific island land snails. *Philosophical Transactions of the Royal Society of London Series B Biological Sciences* 335: 167-191.
- **Cowie, R.H.** 1992. Shell pattern polymorphism in a 13-year study of the land snail *Theba pisana* (Müller) (Pulmonata: Helicidae). *Malacologia* 34(1-2): 87-97.
- **Cowie, R.H.** 1990. Climatic selection on body colour in the land snail *Theba pisana* (Pulmonata: Helicidae). *Heredity* 65: 123-126.
- **Cowie, R.H.,** Wood, T.G., Barnett, E.A., Sands, W.A. & Black, H.I.J. 1990. A checklist of the termites of Ethiopia with a review of their biology, distribution and pest status. *African Journal of Ecology* 28: 21-33.
- Barnett, E.A. & **Cowie, R.H.** 1990. Toxicity of a dihaloalkyl arylsulfone biocide, A-9248, to the fungus cultivated by the fungus-growing termite *Microtermes* sp. nr. *lepidus* (Macrotermitinae). *Sociobiology* 16: 241-246.
- Logan, J.W.M., Cowie, R.H. & Wood, T.G. 1990. Termite (Isoptera) control in agriculture and forestry by non-chemical methods: a review. *Bulletin of Entomological Research* 80: 309-330.
- Pearce, M.J., Cowie, R.H., Pack, A. & Reavey, D. 1990. Intra-specific aggression, colony identity and foraging distances in Sudanese *Microtermes* spp. (Isoptera: Termitidae: Macrotermitinae). *Ecological Entomology* 15: 71-77.
- Tiben, A., Pearce, M.J., Wood, T.G., Kambal, M.A. & Cowie, R.H. 1990. Damage to crops by *Microtermes najdensis* (Isoptera, Macrotermitinae) in irrigated semi-desert areas of the Red Sea Coast. 2. Cotton in the Tokar Delta region of Sudan. *Tropical Pest Management* 36: 296-304.
- **Cowie, R.H.** 1989. The zoogeographical composition and distribution of the Arabian termite fauna. *Biological Journal of the Linnean Society* 36: 157-168.
- **Cowie, R.H.** & Wood, T.G. 1989. Damage to crops, forestry and rangeland by fungus-growing termites (Termitidae: Macrotermitinae) in Ethiopia. *Sociobiology* 15: 139-153.
- **Cowie, R.H.,** Logan, J.W.M. & Wood, T.G. 1989. Termite (Isoptera) damage and control in tropical forestry with special reference to Africa and Indo-Malaysia: a review. *Bulletin of Entomological Research* 79: 173-184.
- Fowles, A.P. & Cowie, R.H. 1989. Westward extension of the distribution of *Theba pisana* in South Wales. *Journal of Conchology* 33: 186-187.
- Barnett, E.A., **Cowie, R.H.** & Wood, T.G. 1988. *Microtermes aethiopicus* sp. n., a fungus-growing termite (Isoptera: Termitidae: Macrotermitinae) from Ethiopia. *Systematic Entomology* 13: 133-141.

- Foote, M. & Cowie, R.H. 1988. Developmental buffering as a mechanism for stasis: evidence from the pulmonate *Theba pisana. Evolution* 42: 396-399.
- Wood, T.G. & Cowie, R.H. 1988. Assessment of on-farm losses in cereals in Africa due to soil insects. *Insect Science and its Application* 9: 709-716.
- Cowie, R.H. 1987. Rediscovery of *Theba pisana* at Manorbier, South Wales. *Journal of Conchology* 32: 384-385.
- **Cowie, R.H.** & Jones, J.S. 1987. Ecological interactions between *Cepaea nemoralis* and *Cepaea hortensis*: competition, invasion, but no niche displacement. *Functional Ecology* 1: 91-97.
- **Cowie, R.H.** 1986. Reduction in the distribution of the land snail *Theba pisana* in Dyfed. *Nature in Wales (new series)* 4: 66-70.
- **Cowie, R.H.** 1985. Microhabitat choice and high temperature tolerance in the land snail *Theba pisana*. *Journal of Zoology, London (A)* 207: 201-211.
- Cowie, R.H. & Jones, J.S. 1985. Climatic selection on body colour in Cepaea. Heredity 55: 261-267.
- Cowie, R.H. 1984. Density, dispersal and neighbourhood size in the land snail *Theba pisana*. *Heredity* 52: 391-401.
- **Cowie, R.H.** 1984. Ecogenetics of *Theba pisana* (Pulmonata: Helicidae) at the northern edge of its range. *Malacologia* 25: 361-380.
- Cowie, R.H. 1984. Shell thickness in the land snail *Theba pisana* (Pulmonata: Helicidae). *Biological Journal of the Linnean Society* 21: 423-429.
- **Cowie, R.H.** 1984. The life-cycle and productivity of the land snail *Theba pisana* (Mollusca: Helicidae). *Journal of Animal Ecology* 53: 311-325.
- **Cowie, R.H.** 1983. Variation in mantle collar colour in the land snail *Theba pisana*: Evidence of climatic selection? *Proceedings of the Academy of Natural Sciences of Philadelphia* 135: 154-162.
- **Cowie, R.H.** & Cain A.J. 1983. Laboratory maintenance and breeding of land snails, with an example from *Helix aspersa*. *Journal of Molluscan Studies* 49: 176-177.
- **Cowie, R.H.** 1980. Observations on the dispersal of two species of British land snail. *Journal of Conchology* 30: 201-208.
- Cowie, R.H. 1980. Precocious breeding of *Theba pisana* (Müller) (Pulmonata: Helicidae). *Journal of Conchology* 30: 238.
- Cain, A.J. & Cowie, R.H. 1978. Activity of different species of land-snail on surfaces of different inclinations. *Journal of Conchology* 29: 267-272.

Contributions to books (18)

- **Cowie, R.H.** & Hayes, K.A. 2012. Apple snails. In: *A handbook of global freshwater invasive species* (ed. Francis, R.A.), p. 207-217, pls. 18.1-18.4. Earthscan, London.
- **Cowie, R.H.** 2011. Snails and slugs. In: *Encyclopedia of Invasive Introduced Species* (ed. D. Simberloff & M. Rejmánek), p. 634-643. University of California Press, Berkeley.
- Thiengo, S.C., Hayes, K.A., Mattos, A.C., Fernandez, M.A. & **Cowie, R.H.** 2011. A família Ampullariidae no Brasil: aspectos morfológicos, biológicos e taxonómicos. In: *Tópicos em Malacologia. Ecos do XIX Encontro Brasileiro de Malacologia* (ed. Fernandez, M.A., dos Santos, S.B., Pimenta, A.D. & Thiengo, S.C.), p. 95-111. Sociedade Brasileiro de Malacologia, Rio de Janeiro.
- **Cowie, R.H.,** Hayes, K.A. & Thiengo, S.C. 2006. What are apple snails? Confused taxonomy and some preliminary resolution. In: *Global advances in ecology and management of golden apple snails* (ed. R.C. Joshi & L.C. Sebastian), p. 3-23. Philippine Rice Research Institute, Muñoz, Nueva Ecija.
- Hollingsworth, R.G. & Cowie, R.H. 2006. Apple snails as disease vectors. In: *Global advances in ecology and management of golden apple snails* (ed. R.C. Joshi & L.C. Sebastian), p. 121-132. Philippine Rice Research Institute, Muñoz, Nueva Ecija.
- Levin, P., **Cowie, R.H.**, Taylor, J., Burnett, K., Hayes, K.A. & Ferguson, C. 2006. Apple snail invasions and the slow road to control: ecological, economic, agricultural and cultural perspectives in Hawaii. In: *Global advances in ecology and management of golden apple snails* (ed. R.C. Joshi & L.C. Sebastian), p. 325-335. Philippine Rice Research Institute, Muñoz, Nueva Ecija.
- **Cowie, R.H.** 2005. Disappearing land snails. In: *Natural history guide to American Samoa*, 2nd edition (ed. P. Craig), p. 56-57. National Park of American Samoa, Department of Marine and Wildlife Resources, American Samoa Community College, Pago Pago.
- **Cowie, R.H.** & Hayes, K.A. 2005. Invasive ampullariid snails: taxonomic confusion and some preliminary resolution based on DNA sequences. In: *Proceedings APEC symposium on the management of the golden apple snail, September 6-11,* 2004 (ed. Lai, P.-Y., Chang, Y.F. & Cowie, R.H.), p. 7-16. National Pingtung University of Science and Technology, Chinese Taipei.

- **Cowie, R.H.** 2005. The use, importance and preservation of malacological collections. In: *1 Simpósio nacional de coleções científicas*, p. 67-72. Instituto Oswaldo Cruz Fiocruz, Rio de Janeiro.
- **Cowie, R.H.** & Robinson, D.G. 2003. Pathways of introduction of nonindigenous land and freshwater snails and slugs. In: *Invasive species: vectors and management strategies* (ed. Ruiz, G. & Carlton, J.T.), p. 93-122. Island Press, Washington, D.C.
- **Cowie, R.H.** 2002. Apple snails (Ampullariidae) as agricultural pests: their biology, impacts and management. In: *Molluscs as Crop Pests* (ed. G.M. Barker), p. 145-192. CABI Publishing, Wallingford.
- **Cowie, R.H.** 2001. Mollusks. *In: Hawai'i's Invasive species. A guide to invasive plants and animals in the Hawaiian Islands* (ed. Staples, G.W. & Cowie, R.H.), p. 66-72. Mutual Publishing & Bishop Museum Press, Honolulu.
- **Cowie, R.H.** 2000. Non-indigenous land and freshwater molluscs in the islands of the Pacific: conservation impacts and threats. In: *Invasive species in the Pacific: a technical review and regional strategy* (ed. G. Sherley), p. 143-172. South Pacific Regional Environment Programme, Apia.
- **Cowie, R.H.** 1996. Pacific island land snails: relationships, origins, and determinants of diversity. In: *The origin and evolution of Pacific island biotas, New Guinea to eastern Polynesia: patterns and processes* (ed. Keast, A. & Miller, Scott E.), p. 347-372. SPB Academic Publishing, Amsterdam.
- Evenhuis, N.L. & Cowie, R.H. 1995. Bibliography. In: *Catalog of the native land and freshwater molluscs of the Hawaiian Islands* (Cowie, R.H., Evenhuis, N.L. & Christensen, C.C.), p. 205-235. Backhuys Publishers, Leiden.
- **Cowie, R.H.** 1993. Non-marine Mollusca of Papua New Guinea. In: *Papua New Guinea Conservation Needs Assessment. Volume 2* (ed. Beehler, B.M.), p. 311-320. Biodiversity Support Program, Washington, D.C.
- Cowie, R.H., Logan, J.W.M. & Wood, T.G. 1991. Termite damage and control in tropical forestry. In: *Advances in Management and Conservation of Soil Fauna. Proceedings of the 10th International Soil Zoology Colloquium, Bangalore, August 1988* (ed. Veeresh, G.K., Rajagopal, D. & Viraktamath, C.A.), p. 161-167. Oxford & IBH Publishing Co., New Delhi.
- **Cowie, R.H.** 1986. Homology. In: *The Collins Encyclopedia of Animal Evolution* (ed. Berry, R.J. & Hallam, A.), p. 82-83. Collins, London.

Edited publications (special journal issues, conference proceedings, newsletter) (26)

- Cowie, R.H. 2014. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 22, 48 p.
- **Cowie, R.H.** 2013. Eosinophilic meningitis caused by *Angiostrongylus cantonensis*, the rat lungworm: biology, distribution, epidemiology, detection, diagnosis, treatment, and management. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 1-88.
- Cowie, R.H. 2013. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 21, 58 p.
- Cowie, R.H. 2012. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 20, 46 p.
- Cowie, R.H. 2011. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 19, 61 p.
- Cowie, R.H. 2010. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 18, 60 p.
- Cowie, R.H. 2009. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 17, supplement, 2 p.
- Cowie, R.H. 2009. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 17, 49 p.
- Héros, V., **Cowie, R.H.** & Bouchet, P. 2008. Tropical deep-sea benthos 25. *Mémoires du Muséum national d'Histoire naturelle* 196: 806 p.
- Trewick, S.A. & Cowie, R.H. 2008. Evolution on Pacific islands: Darwin's legacy. *Philosophical Transactions of the Royal Society of London B* 363(1508): 3289-3465 [cover illustration].
- Cowie, R.H. 2008. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 16, 34 p.
- Cowie, R.H. 2007. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 15, 32 p.
- Cowie, R.H. 2006. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 14, 46 p.
- Lai, P.-Y., Chang, Y.F. & Cowie, R.H. 2005. *Proceedings APEC symposium on the management of the golden apple snail, September 6-11, 2004.* National Pingtung University of Science and Technology, Chinese Taipei. [vi] + 153 p.
- **Cowie, R.H.** 2005. Non-marine alien molluscs: the future is a foreign ecosystem. Proceedings of a symposium held at the annual meeting of the American Malacological Society, Ann Arbor, Michigan, 27 June, 2003. *American Malacological Bulletin* 20: 87-159.
- Cowie, R.H. 2005. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 13, 31 p.
- Cowie, R.H. 2004. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 12, 25 p.
- Cowie, R.H. 2003. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 11, 18 p.
- Cowie, R.H. 2002. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 10, 24 p.

- Cowie, R.H. 2000. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 9, 18 p.
- Cowie, R.H. 1998. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 8, 23 p.
- Cowie, R.H. 1997. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 7, 44 p.
- Cowie, R.H. 1996. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 6, 25 p.
- Cowie, R.H. 1995. Newsletter of the IUCN/SSC Mollusc Specialist Group. No. 5, 17 p.
- **Cowie, R.H.** 1992. The impact of alien species on island ecosystems: extended abstracts of a symposium, 30 May 1991, Honolulu, Hawaii, XVII Pacific Science Congress. *Pacific Science* 46(3): 383-404.
- **Cowie, R.H.** 1989. The First International Symposium on Fungus-growing Termites and the Tropical Environment. Symposium Issue. *Sociobiology* 15: 107-275 [cover illustration].

Book reviews (14)

- Cowie, R.H. 2011. The Natural History of Santo by P. Bouchet, H. Le Guyader & O. Pascal. Pacific Science 65(4): 522-524.
- Cowie, R.H. 2011. The Sound of a Wild Snail Eating by E.T. Bailey. The newsletter of the IUCN/SSC Mollusc Specialist Group 19: 48-49.
- **Cowie, R.H.** 2006. Field Guide to the Land Snails and Slugs of Eastern South Africa by D. Herbert & D. Kilburn. *American Malacological Bulletin* 21: 117-118.
- Cowie, R.H. 2005. Alien Species and Evolution by G.W. Cox. Environmental Conservation 32(1): 95-97.
- Cowie, R.H. 2005. A Primer of Conservation Genetics by R. Frankham, J.D. Ballou & D.A. Briscoe. Oryx 39(2): 227.
- **Cowie, R.H.** 2005. The Biology of Terrestrial Molluscs, Molluscs as Crop Pests, Natural Enemies of Terrestrial Molluscs [3 books] by G.M. Barker. Newsletter of the IUCN/SSC Mollusc Specialist Group 13: 21-23.
- **Cowie, R.H.** 2004. *Checklist of the Land Snails and Slugs of California* by B. Roth & P.S. Sadeghian. *The Nautilus* 118(1): 52-53.
- **Cowie, R.H.** 2003. *Terrestrial Ecoregions of the Indo-Pacific—a conservation assessment* by E. Wikramanayake *et al. Oryx* 37(1): 119-120.
- Cowie, R.H. 1999. Panbiogeography—Tracking the History of Life by R.C. Craw, J.R. Grehan & M.J. Heads. Heredity 83(6): 765-766.
- Cowie, R.H. 1994. Architectonicidae of the Indo-Pacific (Mollusca Gastropoda) by R. Bieler. Hawaiian Shell News 42(8): 10.
- **Cowie, R.H.** 1994. Architectonicidae of the Indo-Pacific (Mollusca Gastropoda) by R. Bieler. Pacific Science Association Information Bulletin 46(1-2): 43-44.
- Cowie, R.H. 1993. Kauai's Native Land Shells by C. Christensen. Hawaiian Shell News 41(7): 8.
- Cowie, R.H. 1990. Compendium of Landshells by R.T. Abbott. Hawaiian Shell News 38(7): 9.
- Cowie, R.H. 1988. Tropical Ecology and Physical Edaphology by R. Lal. Trends in Ecology and Evolution 3: 120.

Extension publications (1)

Hollyer, J.R., Troegner, V.A., Cowie, R.H., Hollingsworth, R.G., Nakamura-Tengan, L., Castro, L.F. & Buchholz, A.E. 2010. Best on-farm food safety practices: reducing risks associated with rat lungworm infection and human eosinophilic meningitis. *Food Safety and Technology, College of Agriculture and Human Resources, University of Hawaii at Manoa* 39, 8 p.

Official reports (28)

- **Cowie, R.H.** 2005. The Golden Apple Snail: *Pomacea* species including *Pomacea canaliculata* (Lamarck, 1822) (Gastropoda: Ampullariidae). Diagnostic standard. *Report to Plant Health Australia*. 38 p.
- **Cowie, R.H.** 2001. Gastropods. In: *Identification of fishpond sediments, Loko Pa'au'au, Pearl City Peninsula, O'ahu, Hawai'i.* (Athens, J.S., ed.), p. 33-35. International Archaeological Research Institute. Honolulu.
- Englund, R.A., Imada, C., Preston, D.J., Evenhuis, N.L., **Cowie, R.H.**, Puttock, C., Arakaki, K. & Dockall, J. 2001. Native and exotic organism study. Lower Wailoa River, Waipi'o Valley, County of Hawai'i. *Bishop Museum Report to USDA Natural Resources Conservation Services*. Honolulu. 2 + ii + 57 p.
- **Cowie, R.H.** 2000. Marine and non-marine shell identifications. In: *Ancient Hawaiian fishponds of Pearl Harbor: Archaeological studies on U.S. Navy lands, Hawai'i. Part D: Paleoenvironmental analyses* (Athens, J.S., ed.), p. 34-38. International Archaeological Research Institute. Honolulu.
- **Cowie, R.H.** 1999. Nonmarine snails at Ordy Pond and the evaporite pan. In: *Environment, vegetation change, and early human settlement on the 'Ewa plain: a cultural resource inventory of naval air station, Barbers Point,*

- O'ahu, Hawai'i. Part III: Paleoenvironmental investigations (Athens, J.S., Ward, J.V., Tuggle, H.D. & Welch, D.J.), p. 209-211. International Archaeological Research Institute. Honolulu.
- **Cowie, R.H.** & Cook, R.P. 1999. The distribution and abundance of land snails in the National Park of American Samoa, with particular focus on Partulidae. *Cooperative National Park Resources Studies Unit, University of Hawaii at Manoa, Technical Report* 125, iii + 143 p.
- Cowie, R.H., Howarth, F.G., Preston, D.J., Rundell, R.J., Stone, F.D. & Montgomery, S.L. 1999. Proposed new Hawai'i Island correctional facility, Waiakea, South Hilo, Island of Hawai'i: assessment of potential impacts on invertebrates (snails, insects and other arthropods). *Bishop Museum Report to Wilson Okamoto, Inc.* Honolulu. 82 p.
- **Cowie, R.H.,** Imada, C.T., Allison, A. & Arakaki, K.T. 1999. Biological survey of the Bond Historic District, North Kohala, island of Hawai'i. *Bishop Museum Report to New Moon Limited Liability Corporation*. Honolulu. 57 p.
- **Cowie, R.H.,** Nishida G.M. & Englund, R.A. 1999. Kamoku-Pükele 138-kV transmission line project, Wa'ahila ridge, O'ahu: assessment of potential impacts on invertebrates (snails, insects and other arthropods). *Bishop Museum Report to CH2MHill, Inc.* Honolulu. 44 p.
- **Cowie, R.H.,** Nishida G.M. & Englund, R.A. 1999. Kamoku-Pükele 138-kV transmission line project, Wa'ahila ridge, O'ahu: assessment of potential impacts on invertebrates (snails, insects and other arthropods). Addendum. *Bishop Museum Report to CH2MHill, Inc.* Honolulu. 14 p.
- Howarth, F.G., Cowie, R.H., Preston, D.J., Englund, R.A., Rundell, R.J., Stone, F.D. & Montgomery, S.L. 1999. Proposed new Hawai'i Island correctional facility, Waiakea, South Hilo, Island of Hawai'i: assessment of potential impacts on invertebrates (snails, insects and other arthropods) of improvements to Stainback Highway. *Bishop Museum Report to Wilson Okamoto, Inc.* Honolulu. 90 p.
- **Cowie, R.H.** 1997. International workshop on ecology and management of the golden apple snail in rice production in Asia, 16-19 June 1997, Phitsanulok, Thailand. *Bishop Museum Report to USAID*. Honolulu. 15 p.
- **Cowie, R.H.,** Allison, A., Howarth, F.G., Samuelson, G.A. & Evenhuis, N.L. 1996. Impacts of construction of the Palau Compact Road: survey of the non-marine fauna of the island of Babeldaob. *Bishop Museum Report to Wil Chee Planning, Inc.*, Honolulu. 44 p.
- **Cowie, R.H.,** Howarth, F.G., Allison, A. & Evenhuis, N.L. 1996. The non-marine fauna of Babeldaob in relation to construction of the Palau Compact Road: environmental assessment of the impacts of pre-construction drilling and ordnance removal. *Bishop Museum Report to Wil Chee Planning, Inc.*, Honolulu. 7 p.
- Evenhuis, N.L., Cowie, R.H., Nishida, G.M., Samuelson, G.A. & Howarth, F.G. 1996. Saddle Road Project: assessment of the impacts on invertebrates (land snails, insects, and other arthropods). *Bishop Museum Report to Rust Environment and Infrastructure*. Honolulu. 84 p.
- Cowie, R.H. 1995. Report on a visit to Cambodia to advise on apple snails as potential rice pests. *Bishop Museum Report to Cambodia–IRRI–Australia Project, Phnom Penh*. Honolulu. 8 + [2] p.
- **Cowie, R.H.** 1994. The land snail fauna of North Halawa Valley, Oahu, Hawaii. In: A natural history survey of North Halawa Valley, Oahu, Hawaii. (Eds. Polhemus, D.A., Howarth, F.G. & Miller, S.E.). *Bishop Museum Report*. Honolulu. 9 p.
- **Cowie, R.H.** 1994. Freshwater snail surveys in relation to eradication of apple snails with copper sulphate on Kauai. *Bishop Museum Technical Report* 5. 26 p.
- Athens, J.S., Erkelens, C., Ward, J.V., **Cowie, R.H.** & Pietrusewsky, M. 1994. The archaeological investigation of inadvertently discovered human remains at the Piikoi and Kapiolani intersection, Kewalo, Waikiki, Oahu, Hawaii. *International Archaeological Research Institute Report*. Honolulu. vi + 56 + [13] p.
- Evenhuis, N.L. & Cowie, R.H. 1994. A survey of the snails, insects and related arthropods in the grounds of the Tripler Army Medical Center, Honolulu, Hawaii. *Bishop Museum Technical Report* 3. 23 p.
- **Cowie, R.H.** & Nishida, G.M. 1993. Malacological inventory survey in the Multi-purpose Range Complex study area of the Pohakuloa Training Area, Island of Hawaii. *Bishop Museum Report to the Nature Conservancy of Hawaii*. Honolulu. 56 p.
- **Cowie, R.H.** 1992. Report on a visit to the mainland United States to study museum collections of ampullariid snails and to discuss research on these snails. *Bishop Museum Report to the Food and Agriculture Organization of the United Nations*. Honolulu. 27 p.
- **Cowie, R.H.** 1992. Identification and analysis of land snail shells recovered from sink hole deposits in the West Beach area of Oahu, Hawaiian Islands. *Bishop Museum Report to Paul H. Rosendahl, Ph.D., Inc.* Honolulu. 10 p.
- Chung, D.J.D. & Cowie, R.H. 1991. An archival inventory of the land snails of the State of Hawaii Natural Area Reserves System. *Bishop Museum Report to the State of Hawaii Natural Area Reserves System Commission*. Honolulu. 67 p., 2 vols. of appendices.

- **Cowie, R.H.** 1988. Report on a second visit to People's Democratic Republic of Yemen to assess termite damage to crops. *Overseas Development Natural Resources Institute. Report R1474(R)*. London. 19 p.
- Barnett, E.A. & **Cowie, R.H.** 1988. Evaluation of product A-9248 as a control agent for fungus-growing termites. Toxicity of A-9248 to the fungus cultivated by the termites. *Overseas Development Natural Resources Institute*. *Report C0786*. Chatham. 11 p.
- **Cowie, R.H.** 1987. Report on a visit to People's Democratic Republic of Yemen to assess termite damage to crops. *Overseas Development Natural Resources Institute. Report R1454(R)*. London. 29 p.
- Barnett, E.A., Cowie, R.H., Sands, W.A. & Wood, T.G. 1987. Identification of termites collected in Ethiopia in January-February and July 1986. *Tropical Development & Research Institute. Report C0696*. London. 18 p.

News and comment articles (38)

Yeung, N.W., Hayes, K.A. & Cowie, R.H. 2013. Newsletter of the IUCN/SSC Mollusc Specialist Group 21: 46-48. Cowie, R.H., Hayes, K.A., Tran, C.T. & Meyer, W.M., III. 2008. Aliens 27: 17.

Holland, B.S. & Cowie, R.H. 2006. Newsletter of the IUCN/SSC Mollusc Specialist Group 14: 28-29.

Holland, B.S. & Cowie, R.H. 2005. Newsletter of the IUCN/SSC Mollusc Specialist Group 13: 17-18.

Cowie, R.H. 2004. Informativo Sociedade Brasileira de Malacologia 149: 5.

Cowie, R.H. 2002. Newsletter of the IUCN/SSC Mollusc Specialist Group 10: 18-19.

Rundell, R.J. & Cowie, R.H. 2002. Newsletter of the IUCN/SSC Mollusc Specialist Group 10: 19-20.

Ponder, W., Mikkelsen, P.M., Cowie, R.H. & Bieler, R. 2001. Reports of the Chugoku-Shikoku Branch of the Ecological Society of Japan 59(October issue): 5-6.

Cowie, R.H. 2000. Newsletter of the IUCN/SSC Mollusc Specialist Group 9: 11-12.

Cowie, R.H. 2000. Newsletter of the IUCN/SSC Mollusc Specialist Group 9: 14.

Cowie, R.H. 1998. World Conservation; quarterly bulletin of IUCN-The World Conservation Union 4/97-1/98: 18.

Cowie, R.H. 1998. World Conservation; quarterly bulletin of IUCN-The World Conservation Union 4/97-1/98: 33.

Cowie, R.H. 1998. Aliens 7: 15.

Cowie, R.H. & Cook, R.P. 1998. Newsletter of the IUCN/SSC Mollusc Specialist Group 8: 14-15.

Cowie, R.H. 1995. Samoa News March 6, 1995: 7.

Cowie, R.H. 1995. Hawaiian Shell News 43(12): 10-11.

Cowie, R.H. 1994. *Hawaiian Shell News* 42(6): 7.

Cowie, R.H. 1993. *Hawaiian Shell News* 41(3): 1, 9.

Kobayashi, W., Cowie, R.H. & Glover, N. 1993. The Taro Tattler 5(1): 2.

Miller, S.E., Cowie, R.H., Smith, B. & Rojek, N. 1993. Newsletter of the IUCN/SSC Mollusc Specialist Group 3: 28-29.

Miller, S.E., Cowie, R.H., Smith, B.D. & Rojek, N. 1993. Species 20: 65.

Cowie, R.H. 1992. *Hawaiian Shell News* 40(2): 9.

Cowie, R.H. 1992. *Hawaiian Shell News* 40(8): 2.

Cowie, R.H. 1991. Bulletin of the Malacological Society of London 16: 7.

Cowie, R.H. 1991. *Hawaiian Shell News* 39(3): 2.

Cowie, R.H. 1991. The Festivus 23(1): 8-9.

Cowie, R.H. & Chung, D.J.D. 1991. Bulletin of the Malacological Society of London 16: 2-6.

Cowie, R.H. 1990. Pacific Science Association Information Bulletin 42(1): 27-28.

Cowie, R.H. 1990. Hawaii's Forests and Wildlife 5(2): 7.

Cowie, R.H. 1990. Association of Systematics Collections Newsletter 18(2): 29.

Cowie, R.H. 1990. *Hawaiian Shell News* 38(3): 2.

Cowie, R.H. 1990. *Hawaiian Shell News* 38(9): 2.

Cowie, R.H. 1988. *Trends in Ecology and Evolution* 3: 60-61.

Cowie, R.H. 1988. IUSSI British Section Newsletter 1988: 10-12.

Cowie, R.H. 1987. *Dyfed Invertebrate Group Newsletter* 5: 8-10.

Cowie, R.H. 1987. Tropical Pest Management 33: 238-239.

Cowie, R.H. 1984. Bulletin of the Malacological Society of London 2: 3-5.

Cowie, R.H. 1983. Malacological Society of London Newsletter 16: 21-22.

Correspondence (12)

Simberloff, D. ... Cowie, R.H. et al. 2011. Nature 475: 36.

Holland, B.S. & Cowie, R.H. 2006. Journal of Biogeography 33: 2155-2156.

Cowie, R.H. 2005. *American Scientist* 93(1): 3.

- **Cowie, R.H.** 2004. *American Scientist* 92(1): 4.
- Cowie, R.H. 2002. Samoa News 2 January 2002: editorial page.
- Cowie, R.H. & Howarth, F.G. 1998. Trends in Ecology and Evolution 13(3): 110.
- **Cowie, R.H.** 1995. *Hawaiian Shell News* 43(6): 8-9.
- **Cowie, R.H.** 1992. *Hawaiian Shell News* 40(10): 6.
- **Cowie, R.H.** 1991. *Hawaiian Shell News* 39(4): 2.
- **Cowie, R.H.** 1990. *Hawaiian Shell News* 38(8): 5.
- **Cowie, R.H.** 1990. *Hawaiian Shell News* 38(9): 5.
- Cowie, R.H. 1989. Bulletin, British Ecological Society 20: 266-269.

Published abstracts (24)

Cowie, R.H., Jones, J.S. & Beaumont, M.A. 2013. Açoreana Supplemento 8: 88.

Schilithz, A.G., Hayes, K.A., Cowie, R.H. & Thiengo, S.C. 2013. Acoreana Supplemento 8: 288-289.

Hayes, K.A., Cowie, R.H., Thiengo, S.C. & Strong, E.E. 2013. Açoreana Supplemento 8: 293-294.

Yeung, N.W., Leung, K., Gary, D.A., Ressler, D.T.B., Cowie, R.H. & Hayes, K.A. 2013. *Açoreana* Supplemento 8: 331.

Kim, J.R., Hayes, K.A., Yeung, N.W. & Cowie, R.H. 2013. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 10.

Meyer, W.M., III. & Cowie, R.H. 2011. The Western Society of Malacologists Annual Report 43[2010]: 61.

Curry, P.A. & Cowie, R.H. 2010. Tropical Natural History Supplement 3: 212.

Hayes, K.A., Strong, E.E. & Cowie, R.H. 2010. Tropical Natural History Supplement 3: 129.

Hershler, R. & Cowie, R.[H.] 2010. Tropical Natural History Supplement 3: 23.

Kim, J.R. & Cowie, R.H. 2010. Tropical Natural History Supplement 3: 205.

Kim, J.R., Hayes, K.A., Yeung, N.W. & Cowie, R.H. 2010. Tropical Natural History Supplement 3: 343.

Yeung, N.W., Hayes, K.A., Meyer, W.M., III, Tran, C.T., Kim, J.R., Skelton, T.J. & Cowie, R.H. 2010. *Tropical Natural History* Supplement 3: 214.

Yeung, N.W., Holland, B.S. & Cowie, R.H. 2010. Tropical Natural History Supplement 3: 317.

Cowie, R.H., Hayes, K.A. & Tran, C.T. 2009. The Western Society of Malacologists Annual Report 39[2006]: 12.

deMaintenon, M.J., Holland, B.S. & Cowie, R.H. 2004. Integrative and Comparative Biology 44: 689.

Holland, B.S. & Cowie, R.H. 2004. Integrative and Comparative Biology 44: 706.

Cowie, R.H. 2000. Venus 59(1): 65-66.

Cowie, R.H. 2000. The Western Society of Malacologists Annual Report 32[1999]: 11-12.

Cowie, R.H. 1998. The Western Society of Malacologists Annual Report 30[1997]: 15.

Cowie, R.H. 1995. Journal of Medical and Applied Malacology 5[1993]: 148.

Cowie, R.H. 1995. The Western Society of Malacologists Annual Report 27[1994]: 3.

Cowie, R.H. 1992. Pacific Science 46(3): 397-398.

Cowie, R.H. 1992. The Western Society of Malacologists Annual Report 24: 24-25.

Cowie, R.H. 1983. Dissertation Abstracts International (C) 44(1): 114.

Thesis (1)

Cowie, R.H. 1982. *Studies on the ecology and ecogenetics of the helicid land snail* Theba pisana (*Müller*). Ph.D. Thesis, University of Liverpool. ix + 472 p.

Publications in press (0)

Publications submitted (3)

Cowie, R.H. Advancing malacological research: crossing boundaries to have a broader impact. *Proceedings of the XI International Congress on Medical and Applied Malacology*.

Cowie, R.H., Kim, J.R. & Hayes, K.A. Angiostrongyliasis: an emerging infectious disease in the Asia-Pacific region, with a focus on Hawaii. *Proceedings of the XI International Congress on Medical and Applied Malacology*.

Régnier, C., Achaz, G., Lambert, A., Cowie, R.H., Bouchet, P. & Fontaine, B. Mass extinction in poorly known taxa. *Science*.