

THE PACIFIC CIRCLE



April 2019

BULLETIN NO. 42

ISSN 1520-3581

CONTENTS

PACIFIC CIRCLE NEWS	2
FUTURE MEETINGS, CONFERENCES and CALLS FOR PAPERS	3
BOOK, JOURNAL, EXHIBITION and RESEARCH NEWS	3
SELECTED RECENT and FORTHCOMING PACIFIC BIBLIOGRAPHY	4
BOOK REVIEW	23
Eve E. Buckley, <i>Technocrats and the Politics of Drought in Twentieth-Century Brazil</i> Chapel Hill, NC: University of North Carolina Press, 2017	
SUBSCRIPTION and STAFF INFORMATION	26

PACIFIC CIRCLE NEWS and NOTES

Business Matters

The Circle's email address is: thepacificcircle@gmail.com. Contact the editor should you have any questions, requests, or information to be shared with Circle members.

The University of Hawai'i Foundation requests that dues or contributions made by check be made payable to "The U.H. Foundation" with "The Pacific Circle" in the memo space. The subscription and dues rates remain: US\$25.00 for individuals and US\$35.00 for institutions. Contributions can be made online.

The Circle web site includes previous issues, documents from conferences, links to affiliated and complementary groups, a blog with information about events and publications, and an option for searching previous issues of *The Bulletin*. Please visit: <http://thepacificcircle.com>.

The editor prepares issues of the *Bulletin* for potential new members, conferences, and departments. Please notify the editor if you would like to take copies with you to a conference or if a colleague might appreciate a copy.



Recent Publications, Honors & Scholarly Activities by Circle Members

Congratulations to...

Helen M. Rozwadowski for *Vast Expanses: A History of the Oceans*, Reaktion Books, 2018.

Marc J. Gilbert for the second edition of J.T. Davidann and M.J. Gilbert, *Cross-Cultural Encounters in Modern World History, 1453-Present*, Routledge, 2019.

Zouyue Wang for "Controlled Exchanges: Public-Private Hybridity, Transnational Networking, and Knowledge Circulation in US-China Scientific Discourse on Nuclear Arms Control," in John Krige, ed. *How Knowledge Moves: Writing the Transnational History of Science and Technology*, University of Chicago Press, 2019, 368-410.

FUTURE MEETINGS, CONFERENCES and CALLS FOR PAPERS

10-12 April 2019. British Society for the History of Science Postgraduate Conference, to be held at the Department of History and Philosophy of Science, Cambridge University. Dr. Sujit Sivasundaram will be the keynote speaker.

19-23 August 2019. 15th International Conference on the History of Science in East Asia (ICHSEA 2019), to be held at Chonbuk National University, Jeonju, Republic of Korea. For information, please email secretariat@ichsea2019.org or visit <http://ichsea22019.org>.

5-6 September 2019. “Rethinking Maritime Encounters, 1400-1900,” Hakluyt Society Symposium, to be held at Leiden University, The Netherlands. Joshua Reid (University of Washington, Seattle), will be the keynote speaker. For additional information regarding papers and accommodations, please contact hakluytleiden2019@gmail.com.

11-14 September 2019. British Society for the History of Medicine Meeting, to be held at the M Shed in Bristol, U.K. The Congress will have four themes: History of Medicine at Sea, History of Medicine in the West of Britain, History of Health Care Education, and History of Mental Illness and Mental Disability. Abstract submissions are due by May 31. For additional information, please contact bshm.congress@gmail.com.

BOOK, JOURNAL, EXHIBITION and RESEARCH NEWS

Victorian Studies 60:1 (2018) is a special issue on “Climate Change and Victorian Studies,” edited by Elizabeth Carolyn Miller. Articles include Allen MacDuffie’s discussion of “Charles Darwin and the Victorian Pre-History of Climate Denial.”



**SELECT RECENT and FORTHCOMING
PACIFIC BIBLIOGRAPHY**

BOOKS and BOOK CHAPTERS

Algae of Australia: Marine Benthic Algae of North-Western Australia, 2, by **John Huisman**, CSIRO Publishing, 2018.

Australasian Eagles and Eagle-Like Birds, by **Stephen Debus**, CSIRO Publishing, 2018.

Australian Bryozoa Set, Volumes I and II, by **Patricia Cook, Philip Bock, Dennis Gordon**, and **Haylee Weaver**, CSIRO Publishing, 2018.

Australian Echinoderms, eds. **Maria Byrne** and **Timothy O'Hara**, CSIRO Publishing, 2017.

Australian Island Arks: Conservation, Management and Opportunities, by **Dorian Moro, Derek Ball**, and **Sally Bryant**, CSIRO Publishing, 2018.

A Bat's End: The Christmas Island Pipistrelle and Extinction in Australia, by **John Woinarksi**, CSIRO Publishing, 2018.

Bees of Australia: A Photographic Exploration, by **James Dorey**, CSIRO Publishing, 2018.

The Behavior and Ecology of Pacific Salmon and Trout, by **Thomas P. Quinn**, University of Washington Press and American Fisheries Society, 2018.

Bird Minds: Cognition and Behaviour of Australian Native Birds, by **Gisela Kaplan**, CSIRO Publishing, 2018.

Birds in their Habitats: Journeys with a Naturalist, by **Ian Fraser**, CSIRO Publishing, 2018.

A Field Guide to Spiders of Australia, by **Robert Whyte** and **Greg Anderson**, CSIRO Publishing, 2018.

Flora of the Pacific Northwest: An Illustrated Manual, 2nd edition, by **C. Leo Hitchcock** and **Arthur Cronquist**, revised by **David Giblin, Ben Legler, Peter F. Zika**, and **Richard Olmstead**, University of Washington Press, 2019.

Freshwater Turtles of Australia, by **John Cann** and **Ross Sadler**, CSIRO Publishing, 2018.

The Great Barrier Reef: Biology, Environment and Management, by **Pat**

Hutchings, Michael Kingsford, and Ove Hoegh-Guldberg, CSIRO Publishing, forthcoming in 2019.

A Guide to Native Bees of Australia, by **Terry Houston**, CSIRO Publishing, 2018.

Made Modern: Science and Technology in Canadian History, eds. **Edward Jones-Imhotep** and **Tina Adcock**, University of British Columbia Press, distributed by University of Washington Press, 2019.

Monitoring Threatened Species and Ecological Communities, eds. **Sarah Legge, David Lindenmayer, Natasha Robinson, Benjamin Scheele, Darren Southwell, and Brendan Wintle**, CSIRO Publishing, 2018.

Night Parrot: Australia's Most Elusive Bird, by **Penny Olsen**, CSIRO Publishing, 2018.

Pacific Northwest Insects, by **Merrill A. Peterson**, University of Washington Press, 2018.

Plants of the Victorian High Country: A Field Guide for Walkers, by **John Murphy** and **Bill Dowling**, 2nd edition, CSIRO Publishing, 2018.

Recovering Australian Threatened Species: A Book of Hope, eds. **Stephen Garnett, Peter Latch, David Lindenmayer, and John Woinarski**, CSIRO Publishing, 2018.

Reptiles and Amphibians of Australia, by **Harold Cogger**, CSIRO Publishing, 2018.

Reptiles of Victoria: A Guide to Identification and Ecology, by **Peter Robertson** and **A. John Coventry**, CSIRO Publishing, 2019.

Rocky Outcrops in Australia: Ecology, Conservation and Management, by **Damian Michael** and **David Lindenmayer**, CSIRO Publishing, 2018.

Selected Writings, by **Alexander von Humboldt**, ed. by **Andrea Wulf**, Penguin Random House, 2018.

Status of Conservation and Decline of Amphibians: Australia, New Zealand, and Pacific Islands, by **Harold Heatwole** and **Jodi Rowley**, CSIRO Publishing, 2019.

Wildlife of the Otways and Shipwreck Coast: A Photographic Field Guide to the Vertebrate Wildlife of Victoria's South-West, by **Grant Palmer**, CSIRO Publishing, 2019.

ARTICLES and ESSAYS

“Ability of Alleles of PPD1 and VRN1 Genes to Predict Flowering Time in Diverse Australian Wheat (*Triticum aestivum*) Cultivars in Controlled Environments,” by **Maxwell T. Bloomfield, James R. Hunt, Ben Trevaskis, Kerrie Ramm, and Jessica Hyles**, *Crop & Pasture Science* 69:11 (2018), 1061-1075.

“Addressing Fish-Passage Issues at Hydropower and Irrigation Infrastructure Projects in Indonesia,” by **Lee J. Baumgartner and Arif Wibowo**, *Marine and Freshwater Research* 69:12 (2018), 1805-1813.

“Animal Reintroductions in Peopled Landscapes: Moving Towards Urban-Based Species Restorations in New Zealand,” by **Yolanda van Heezik and Philip J. Seddon**, *Pacific Conservation Biology* 24:4 (2018), 349-359.

“Assessing Wetland Climate Change Vulnerability for Wetland Management Decision support using the Hydrogeological Landscape Framework: Application in the Australian Capital Territory,” by **A.L. Cowood, J. Young, T.I. Dowling, C.L. Moore, R. Muller, J. MacKenzie, M. Littleboy, and A.T. Nicholson**, *Marine & Freshwater Research* 70:2 (2018), 225-245.

“Association Between Community Assemblage of Flower Colors and Pollinator Fauna: A Comparison between Japanese and New Zealand Alpine Plant Communities,” by **Hiroshi S. Ishii, Masahiro X. Kubota, Shohei G. Tsujimoto, and Gaku Kudo**, *Annals of Botany* 123:3 (2019), 533-541.

“Asymmetric Pruning Evinces How Organ Connectivity Alters the Functional Balance between Leaves and Roots of Chinese Fir,” by **Tingfa Dong, Baoli Duan, Helena Korpelainen, Ulo Niinemets, and Chunyang Li**, *Journal of Experimental Botany*, available online at <https://academic.oup.com/jxb/>.

“Baseline Susceptibility of *Bemisia tabaci* MEAM1 (Hemiptera: Aleyrodidae) in Australia to Spirotetramat, Cyantraniliprole, and Dinotefuran, with Reference to Pyriproxyfen Cross-Resistance,” by **Jamie E. Hopkinson and Stephanie M. Pumpa**, *Austral Entomology* (2019), available online at <https://onlinelibrary.wiley.com/>.

“Bicontrol of *Harrisia* Cactus *Harrisia martinii* by the Mealybug *Hypgeococcus festerianus* (Hemiptera: Pseudococcidae) in Salt-Influenced habitats in Australia,” by **Wayne A. Houston and Rod Elder**, *Austral Entomology* (2019), available online at <https://onlinelibrary.wiley.com/>.

“*Caledopsalta* gen. nov., A New Genus for New Caledonian Cicadas Previously Assigned to *Pauropsalta* Goding & Froggatt, Plus the Description of Four New Species (Hemiptera: Cicadoidea: Cicadidae),” by **Quentin Delorme**, *Austral*

Entomology 57:4 (2018), 440-456.

“Carbon Fluxes and Species Diversity in Grazed and Fenced Typical Steppe Grassland of Inner Mongolia, China,” by **R. Sagar, G.Y. Li, J.S. Singh, Shiqiang Wan**, *Journal of Plant Ecology* 12:1 (2019), 10-22.

“Change in the Rocky Reef Fish Fauna of the Iconic Poor Knights Islands Marine Reserve in North-Eastern New Zealand over Four Decades,” by **David R. Schiel, Tony Ayling, Michael J. Kingsford, Christopher N. Battershill, J. Howard Choat, Neil L. Andrew, Kendall D. Clements, Avril L. Ayling, Linda L. Leum, Mark Poynter, and Geoffrey P. Jones**, *Marine & Freshwater Research* 69:10 (2018), 1496-1507.

“Changing Windows of Opportunity: Past and Future Climate-Driven Shifts in Temporal Persistence of Kingfish (*Seriola lalandi*) Oceanographic Habitat within South-Eastern Australian Bioregions,” by **Curtis Champion, Alistair J. Hobday, Xuebin Zhang, Gretta T. Peci, and Sean R. Tracey**, *Marine and Freshwater Research* 70:1 (2018), 33-42.

“Characteristics of the Den Trees of the Yellow-Bellied Glider in Western Victoria,” by **Ross L. Goldingay, Susan M. Carthew, and Matthew Daniel**, *Australian Journal of Zoology* 66:3 (2018), 179-184.

“Climate Affects Fish-Kill Events in Subtropical Estuaries of Eastern Australia,” by **Vanessa N.L. Wong, Simon Walsh, and Stephen Morris**, *Marine & Freshwater Research* 69:11 (2018), 1641-1648.

“Comparative Investigation of Body Mass Index of Tertiary Students of the South Pacific Origin,” by **Riteshma Devi, Prayna P.P. Maharaj, and Surendra Prasad**, *The South Pacific Journal of Natural and Applied Sciences* 36:1 (2018), 18-26.

“A Comparative Study of Wavelength-Dependent Photoinactivation in Photosystem II of Drought-Tolerant Photosynthetic Organisms in Antarctica and the Potential Risks of Photonhibition in the Habitat,” by **Makiko Kosugi, Fumino Maruo, Takeshi Inoue, Norio Kurosawa, and Akinori Kawamata**, *Annals of Botany* 122:7 (2018), 1263-1278.

“Comparing Wild and Reintroduced Populations of the Threatened Orchid *Diuris fragrantissima* (Orchidaceae) in South-Eastern Australia,” by **Michael Duncan and Paul D. Moloney**, *Australian Journal of Botany* 66:7 (2018), 459-467.

“The Composition, Richness, and Evenness of Seedlings from the Soil Seed Bank of a Semi-Arid Steppe in Northern China are Affected by Long-Term Stocking Rates of Sheep and Rainfall Variation,” by **A. Hu, J. Zhang, X.J. Chen, J. P. Millner, S.H. Chang, S. Bowatte, and F.J. Hou**, *The Rangeland Journal* 41:1 (2019), 23-32.

“Compound Leaves are Associated with High Hydraulic Conductance and Photosynthetic Capacity: Evidence from Trees in Northeast China,” by **Da Yang, Yong-Jiang Zhang, Jia Song, Cun-Yang Niu, and Guang-You Hao**, *Tree Physiology* (2019), available online at <https://academic.oup.com/treephys/>.

“Conservation and Restoration in Peopled Landscapes in Oceania: Opportunities and Challenges,” by **Heiko U. Wittmer, Victor Anton, Monica A.M. Gruber, Luke Ireland, Wayne Linklater, James C. Russell, and Danielle F. Shanahan**, *Pacific Conservation Biology* 24:4 (2018), 409-416.

“Coral Colonies in the Eastern Tropical Pacific: Predated by *Acanthaster cf. solaris*,” by **J.C. Rodriguez-Vilalobos and A. Ayala-Bocos**, *Pacific Conservation Biology* 24:4 (2018), 419-420.

“Creating Sustainable Future Landscapes: A Role for Landscape Ecology in the Rangelands of Northern Australia,” by **Diane Pearson, Muhammad Nawaz, and Robert Wasson**, *The Rangeland Journal* 41:1 (2019), 13-21.

“Crop Responses to Subsoil Manuring. I. Results in South-Western Victoria from 2009 to 2012,” by **Peter W. Sale, Jaikirat S. Gill, Renick R. Peries, and Caixian Tang**, *Crop & Pasture Science* 70:1 (2018), 44-54.

“Cropping Practices Influence Incidence of Herbicide Resistance in Annual Rygrass (*Lolium rigidum*) in Australia,” by **J.C. Broster, J.E. Pratley, R.H.L. Ip, L. Ang, and K.P. Seng**, *Crop & Pasture Science* 70:1 (2018), 77-84.

“Cryptic Speciation in a Biodiversity Hotspot: Multilocus Molecular Data Reveal new Velvet Worm Species from Western Australia (Onychophora: Peripatopsidae: *Kumbadjena*),” by **Shoyo Sato, Rebecca S. Buckman-Young, Mark S. Harvey, and Gonzalo Giribet**, *Invertebrate Systematics* 32:6 (2018), 1249-1264.

“Cuticular Microstructure of Australian Ant Mandibles Confirms Common Appendage Construction,” by **Molly M. Barlow, Russell D.C. Bicknell, and Nigel R. Andrew**, *Acta Zoologica* (2019), available online at <https://onlinelibrary.wiley.com>.

“Decade of Change in *Enhalus acoroides* Seagrass Meadows in Guam, Mariana Islands,” by **Carly K. LaRoche, Benjamin R. Goldstein, Jonathan D. Cybulski, Laurie J. Raymundo, Lillian R. Aoko, and Kiho Kim**, *Marine & Freshwater Research* 70:2 (2018), 246-254.

“Decline in New Zealand’s Freshwater Fish Fauna: Effect of Land Use,” by **Michael K. Joy, Kyleisha J. Foote, Pierce McNie, and Marina Piria**, *Marine and Freshwater Research* 70:1 (2018), 114-124.

“Decline of the Greater Glider (*Petauroides volans*) in the Lower Blue

Mountains, New South Wales,” by **Peter Smith** and **Judy Smith**, *Australian Journal of Zoology* 66:2 (2018), 103-114.

“Degrees of Population-Level Susceptibility of Australian Terrestrial Non-Volant Mammal Species to Predation by the Introduced Red Fox (*Vulpes vulpes*) and Feral Cats (*Felis catus*),” by **James Q. Radford**, **John C.Z. Woinarski**, **Sarah Legge**, **Marcus Baeler**, **Joss Bentley**, **Andrew A. Burbidge**, **Michael Bode**, **Peter Copley**, **Nicholas Dexter**, **Chris R. Dickman**, **Graeme Gillespie**, **Brydie Hill**, **Chris N. Johnson**, **John Kanowski**, **Peter Latch**, **Mike Letnic**, **Adrian Manning**, **Peter Menkhorst**, **Nicola Mitchell**, **Keith Morris**, **Katherine Moseby**, **Manda Page**, and **Jeremy Ringma**, *Wildlife Research* 45:7 (2018), 645-657.

“Description of a New Species of *Haminoea* (Gastropoda: Cephalaspidae) from India, with an Account of the Diversity of the Genus in the Indo-West Pacific,” by **Monisha Bharate**, **Trond R. Oskars**, **Sumantha Narayana**, **Raveendhiran Ravinesh**, **Appukkuttannair Biju Kumar**, and **Manual Antonio E. Malaquias**, *Journal of Natural History* 52:37-38 (2018), 2437-2456.

“Development of a Wetland Plant Indicator List to Inform the Delineation of Wetlands in New South Wales,” by **J.E. Ling**, **M.T. Casanova**, **I. Shannon**, and **M. Powell**, *Marine & Freshwater Research* 70:3 (2018), 322-344.

“Diet of Tropical Insectivorous Birds in Lowland Malaysian Rainforest,” by **Mohammad Saiful Mansor**, **Nurul Ashikin Abdullah**, **Muhammad Rasul Abdullah Halim**, **Shukor Md. Nor**, and **Rosli Ramli**, *Journal of Natural History* 52:35-36 (2018), 2301-2316.

“Discovery of a New Species of *Stromatium* Audinet-Serville, 1834 (Coleoptera: Cerambycidae) Native to Australia, Based on Morphology and DNA Barcoding,” by **Mengjie-Jin**, **Tom Weir**, **Stephen L. Cameron**, **Catherine Lemann**, **Adam Slipinski**, and **Hong Pang**, *Austral Entomology* 58:1 (2019), 137-147.

Discovery of the Subfamily Lycoriniinae Cushman & Rohwer, 1920 (Hymenoptera: Ichneumonidae) from Indonesia, based on *Lycorina longicauda* Shimizu, sp. nov., with a Key to the Oriental *Lycorina* Species,” by So **Shimizu** and **Ryo Ogawa**, *Austral Entomology* 58:1 (2019), 148-155.

“Does Population Structure Predict the Rate of Speciation? A Comparative Test across Australia’s Most Diverse Vertebrate Radiation,” by **Sonal Singhal**, **Huateng Huang**, **Maggie R. Grunler**, **Maria R. Marchan-Rivadeneira**, **Iris Holmes**, **Pascal O. Title**, **Stephen C. Donnellan**, and **Daniel L. Rabosky**, *The American Naturalist* 192:4 (2018), 432-447.

“Distribution of Long-Horn Beetles (Cerambycidae: Coleoptera) within the

Fijian Archipelago,” by **Hilda V.F. Waqa-Sakit, Simon Hodge, and Linton Winder**, *The South Pacific Journal of Natural and Applied Sciences* 36:1 (2018), 1-8.

“Effect of Experimental Fire on Seedlings of Australian and Gondwanan Trees Species from a Tasmanian Montane Vegetation Mosaic,” by **Lynda D. Prior, Ben J. French, and David M.J.S. Bowman**, *Australian Journal of Botany* 66:7 (2018), 511-517.

“Effect of a Grazing Ban on Restoring the Degraded Alpine Meadows of Northern Tibet, China,” by **W.N. Zhang, H. Ganjurjav, Y. Liang, Q.Z. Gao, Y.F. Wan, Y. Li, Y.Z. Baima, and Z.M. Xirao**, *The Rangeland Journal* 37:1 (2018), 89-95.

“Effect of Temperature and Light on Germination of 10 Species of *Eucalyptus* from North-Western N.S.W.,” by **Lorena Ruiz-Talonia, David Carr, Rhiannon Smith, R. D. B. Whalley, and Nick Reid**, *Australian Journal of Botany* 66:8 (2019), 657-666.

“Effects of Simulated Seedling Defoliation on Growth and Yield of Cotton in Southern New South Wales,” by **Jianhua Mo, Sandra McDougall, Sarah Beaumont, Scott Munro, and Mark M. Stevens**, *Crop & Pasture Science* 69:9 (2018), 915-925.

“Effects of Nitrogen Addition on Plant Biomass and Tissue Elemental Content in Different Degradation Stages of Temperate Steppe in Northern China,” by **Jin-Bin Chen, Cheng-Cheng Dong, Xiao-Dong Yao, and Wei Wang**, *Journal of Plant Ecology* 11:5 (2018), 730-739.

“Effects of Temperature and Burial on Seed Germination and Persistence of the Restricted Invasive *Stevia ovata* in Northern Queensland,” by **Faiz E. Bebawi, Shane D. Campbell, Robert J. Mayer, Melissa J. Setter, and Stephen D. Setter**, *Australian Journal of Botany* 66:5 (2018), 388-397.

“Effects of Tourism Disturbance on Habitat Quality and Population Size of the Chinese Giant Salamander (*Andrias davidianus*),” by **Qinghua Luo, Yingjie Song, Xiao Hu, Shenhai Zhu, Han Wang, and Hongbing Ji**, *Wildlife Research* 45:5 (2018), 411-420.

“Elevation Patterns and Ecological Determinants of Mean Family Age of Angiosperm Assemblages in Temperate Forests with Mount Taibai, China,” by **Mingfel Zhao, Yuhang Wang, Feng Xue, Wanyi Zuo, and Kaixiong Xing**, *Journal of Plant Ecology* 11:6 (2018), 919-927.

“Elevational Patterns of Carbon, Nitrogen and Phosphorous in Understory Bryophytes on the Eastern Slope of Gongga Mountain, China,” by **Zhe Wang, Chunyan Pi, Xiaoming Li, and Weikai Bao**, *Journal of Plant Ecology* (2019), available online at <https://academic.oup.com/jpe/>.

“Evaluation of Risks for Two Native Mammal Species from Feral Cat Baiting in Monsoonal Tropical Northern Australia,” by **Jaime Heiniger, Skye F. Cameron, and Graeme Gillespie**, *Wildlife Research* (2018), available online at https://www.publish.csiro.au/WR/acc/WR17171/WR17171_AC.pdf.

“Factors Linked to Temporal and Spatial Variation in the Metazoan Parasite Communities of Green Jack *Caranx caballus* (Gunther 1868) (Pisces: Carangidae) from the Pacific Coast of Mexico,” by **Yesenia Gallegos-Novarro, Juan Violante-Gonzalez, Scott Monks, Sergio Garcia Ibanez, Agustin A. Rojs-Herera, and Griselda Pulido-Flores**, *Journal of Natural History* 52:39-40 (2018), 2573-2590.

“First Detection of Russian Wheat Aphid *Diuraphis noxia* Kurdjumov (Hemiptera: Aphididae) in Australia: A Major Threat to Cereal Production,” by **Maryam Yazdani, Greg Baker, Helen DeGraaf, Ken Henry, Kelly Hill, Bill Kimber, Mallik Malipatil, Kym Perry, Isabel Valenzuela, and Michael A. Nash**, *Austral Entomology* 57:4 (2018), 410-417.

“First Gall Midge (Diptera: Cecidomyiidae) Known to Feed on Plant Family Atherospermataceae: A New Species of *Asphondylia* Damaging the Endangered Australian Tree *Daphnandra johnsonii*,” by **Peter Kolesik, Nathan Butterworth, Jedda Lemmon, Tracey Gibson, and James F. Wallman**, *Austral Entomology* (2019), available online at <https://onlinelibrary.wiley.com>.

“First Record of a Praying Mantis, *Tropidomantis kawaharai* Brannoch sp. nov. (Mantodea: Iridopterygidae), in the mid-Pacific Marquesas Archipelago,” by **Sydney K. Brannoch and Gavin J. Svenson**, *Austral Entomology* (2018), <https://onlinelibrary.wiley.com>.

“First Record of the Subfamily Psallopinae (Heteroptera: Miridae) from Australia and Discussion of its Systematic Position and Diagnostic Characters,” by **Anna A. Namyatova and Gerasimo Cassis**, *Austral Entomology* 58:1 (2019), 156-170.

“Floral Traits Predict Pollination Syndrome in *Syzygium* Species: A Study on Four Endemic Species of the Western Ghats, India,” by **Giby Kuriakose, Palatty Allesh Sinu, and K.R. Shivanna**, *Australian Journal of Botany* 66:7 (2018), 575-582.

“Forecasting the Spatiotemporal Pattern of the Cane Toad Invasion into North-Western Australia,” by **J. Sean Doody, Colin McHenry, Mike Letnic, Corinne Everitt, Graeme Sawyer, and Simon Clulow**, *Wildlife Research* 45:8 (2018), 718-725.

“Geology is a Significant Indicator of Algal Cover and Invertebrate Species Composition on Intertidal Reefs of Ngari Capes Marine Park, South-Western Australia,” by **C. Bessey, M.J. Rule, M. Dasey, A. Brearley, J.M. Huisman, S.K. Wilson, and A.J. Kendrick**, *Marine & Freshwater Research* 70:2 (2018), 270-279.

“Germination Ecology of *Sonchus oleraceus* L. in the Northern Region of Australia,” by **Sugheesh Manalil, Hafiz Haider Ali, and Bhagirath Singh Chauhan**, *Crop & Pasture Science* 69:9 (2018), 926-932.

“Growth Rates of, and Milk Feeding Schedules for, Juvenile Spectacled Flying-Foxes (*Pteropus conspicillatus*) Reared for Release at a Rehabilitation Center in North Queensland, Australia,” by **Jennefer Mclean, Ashleigh Johnson, Delaine Woods, Reinhold Muller, David Blair, and Petra. G. Buetnner**, *Australian Journal of Zoology* 66:3 (2019), 201-213.

“Havens for Threatened Australian Mammals: The Contributions of Fenced Areas and Offshore Islands to the Protection of Mammal Species Susceptible to Introduced Predators,” by **Sarah Legge, John C.Z. Woinarski, Andrew A. Burbidge, Russell Palmer, Jeremy Ringma, James Q. Radford, Nicola Mitchell, Michael Bode, Brendan Wintle, Marcus Baseler, Joss Bentley, Peter Copley, Nicholas Dexter, Chris R. Dickman, Graeme R. Gillespie, Brydie Hill, Chris N. Johnson, Peter Latch, Mike Letnic, Adrian Manning, Erin E. McCreless, Peter Menkhorst, Keith Morris, Katherine Moseby, Manda Page, David Pannell, and Katherine Tuft**, *Wildlife Research* 45:7 (2018), 627-644.

“High Variation in Camera Trap-Model Sensitivity for Surveying Mammal Species in Northern Australia,” by **Jaime Heiniger and Graeme Gillespie**, *Wildlife Research* 45:7 (2018), 578-585.

“Historical Face of Narcotic Revisited: A Chinese City’s Fifty-Year Quest for Hygienic Modernity, 1900-49,” by **Jianan Huang**, *Medical History* 63:1 (2019), 82-94.

“Identifying Critical Research Gaps that Limit Control Options for Invertebrate Pests in Australian Grain Production Systems,” by **Sarina Macfadyen, Mona Moradi-Vajargah, Paul Umina, Ary Hoffmann, Michael Nash, Jo Holloway, Dusty Severtson, Matthew Hill, Maarten Van Helden, and Madeleine Barton**, *Austral Entomology* 58:1 (2019). 9-26.

“Incongruent Cladistics Reveal a New Hydrozoan Genus (Cnidaria: Sertularellidae) Endemic to the Eastern and Western Coasts of the North Pacific Ocean,” by **Xikun Song, Cinzia Gravili, Bernhard Ruthensteiner, Mingxin Lyu, and Jianjun Wang**, *Invertebrate Systematics* (2018), available online at <https://www.publish.csiro.au/is/>.

“The Influence of Temperature on Embryonic Respiration, Growth, and Sex Determination in a Western Australian Population of Green Turtles (*Chelonia mydas*),” by **Jessica Stubbs and Nicola Mitchell**, *Physiological and Biochemical Zoology* 91:6 (2018), 1102-1114.

“Initiating a Conflict with Wildlife – The Reintroduction and Feeding of Kaka, Wellington City, New Zealand,” by **Wayne Linklater, Holly Chapman, Andrea Gregor, Rebecca Calder-Flynn, Johan Gouws, Olivia Quigan, Anindita Rustandi, June Brian-Molitaviti, and Yile Ying**, *Pacific Conservation Biology* 24:4 (2018), 360-370.

“Insights into the Seasonal Adaptive Mechanisms of Chinese Alligators (*Alligator sinensis*) from Transcriptomic Analyses,” by **Hongji Sun, Xianbo Zuo, Long Sun, Peng Yan, Fang Zhang, Hui Xue, En Li, Yongkang Zhou, Rong Wu, and Xiaobing Wu**, *Australian Journal of Zoology* 66:2 (2018), 93-102.

“Integrated Zircon U-Pb-O-Hf and Whole-Rock Sm-Nd Studies of Paleozoic Amphibolites in the Chencai Area of the Cathaysia Block, South China,” by **Lei Zhao, Bo Liu, Allen P. Nutman, Mingguo Zhai, Xiwen Zhou, and Xiahong Cui**, *The Journal of Geology* 126:6 (2018), 621-637.

“Integrating Dots and Spots with CO1 Sequence Data Reinstates *Thoracolopha* Turner, 1939 (Lepidoptera: Noctuidae), for 13 Australian Species Formerly in *Proteuxoa* Hampson, 1903,” by **Bobbie Hitchcock, Edward Edwards, and Andrew Mitchell**, *Austral Entomology* 57:4 (2018), 418-439.

“Integrative Taxonomy Helps Separate Four Species of Freshwater Shrimps Commonly Overlooked as *Caridina longirostris* (Crustacea: Decapoda: Atyidae) on Indo-West Pacific Islands,” by **Valentin de Mazancourt, Werner Klotz, Gerard Marquet, and Philippe Keith**, *Invertebrate Systematics* 32:6 (2018), 1422-1447.

“The Interaction Between Nonstructural Carbohydrate Reserves and Xylem Hydraulics in Korean Pine Trees Across an Altitudinal Gradient,” by **Ai-Ying Wang, Shi-Jie Han, Jun-Hui Zhang, Miao Wang, Xiao-Han Yin, L-Dong Fang, Da Yang, and Guang-You Hao**, *Tree Physiology* 38:12 (2018), 1792-1804.

“Invasive Alien Palm *Pinanga coronata* Threatens Native Tree Fern in an Oceanic Island Rainforest,” by **Michael J.B. Dyer, Gunnar Keppel, Marika Tuiwawa, Sainivalati Vido, and Hans Juergen Boehmer**, *Australian Journal of Botany* 66:8 (2019), 647-656.

“Join the Ant Hunt: How Accurately Can the Public Recognise Red Imported Fire Ant *Solenopsis invicta* (Hymenoptera: Formicidae) in Australia?” by **Melinda K. McNaught, Ross Wylie, and Robert Bell**, *Austral Entomology* (2019), available online at <https://onlinelibrary.wiley.com>.

“Latitudinal Pattern and the Driving Factors of Leaf Functional Traits in 185 Shrub Species Across Eastern China,” by **Yongai Luo, Huifeng Hu, Mengying Zhao, He Li, Shangshi Liu, and Jingyun Fang**, *Journal of Plant Ecology* 12:1 (2019), 67-77.

“Late Paleozoic Accretionary and Collisional Processes along the Southern Peri-Siberian Orogenic System: New Constraints from Amphibolites within the Irtysh Complex of Chinese Altai,” **Ming Chen, Min Sun, Pengfel Li, Jianping Zheng, Keda Cai and Yuping Su**, *The Journal of Geology* 127:2 (2019), 241-262.

“The Lens in Focus – Lens Structure in Seeds of 51 Australian *Acacia* Species and its Implications for Imbibition and Germination,” by **Geoffrey E. Burrows, Rowan Alden, and Wayne A. Robinson**, *Australian Journal of Botany* 66:5 (2018), 398-413.

“Level of Habitat Fragmentation Determines its Non-Linear Relationships with Plant Species Richness, Frequency and Density at Desertified Grasslands in Inner Mongolia, China,” by **Zhimin Liu, Wenkai Shou, Jianqiang Qian, Jing Wu, and Carlos Alberta Busso**, *Journal of Plant Ecology* 11:6 (2018), 866-876.

“The Lichen Flora of Tropical Cape York Peninsula, Queensland, Australia,” by **Victor J. Neldner, Rodrick W. Rogers, and Paul I. Forster**, *Australian Journal of Botany* 66:5 (2018), 428-447.

“Lies, Damned Lies, and (Bourgeois) Statistics: Ascertaining Social Fact in Midcentury China and the Soviet Union,” by **Arunabh Ghosh**, *Osiris* 33:1 (2018), 149-168.

“Limiting the Effects of Hydropower Dams on Freshwater Biodiversity: Options on the Lancang River, China,” by **Hongzhang Xu and Jamie Pittock**, *Marine & Freshwater Research* 70:2 (2018), 169-194.

“Local Actions, National Policies and International Knowledge: Family Planning and Statistical Practices in Taiwan (1949-1980s),” by **Yi-Tang Lin**, *Social History of Medicine* (2019), available online at <https://academic.oup.com/shm/>.

“Making the Chinese Copycat: Trademark and Recipes in Early Twentieth-Century Global Science and Capitalism,” by **Eugenia Lean**, *Osiris* 33:1 (2018), 271-293.

“Mapping the Vertical Distribution of Maize Roots in China in Relation to Climate and Soil Texture,” by **Sheng Wang, Yao Huang, Wenjuan Sun, and Lingfei Yu**, *Journal of Plant Ecology* 11:6 (2018), 899-908.

“Masquerading as Pea Plants: Behavioural and Morphological Evidence for Mimicry of Multiple Models in an Australian Orchid,” by **Daniela Scaccabarozzi, Salvatore Cozzolino, Lorenzo Cuzzetti, Andrea Galimberti, Lynne Milne, Kingsley W. Dixon, and Ryan D. Phillips**, *Annals of Botany* 122:6 (2018), 1061-1073.

“Mechanisms Regulating Spatial Changes in Grasslands Productivity Following Nutrient Addition in Northern China,” by **Na Zhao, Xinqing Shao, Chao Chen**,

Jiangwen Fan, and Kun Wang, *The Rangeland Journal* 41:1 (2019), 83-96.

“The Microbial Production of Expertise in Meiji Japan,” by **Victoria Lee**, *Osiris* 33:1 (2018), 171-190.

“Molecular Characterisation of the *NAM-1* Genes in Bread Wheat in Australia,” by **Rongchang Yang, Angela Juhasz, Yujian Ahang, Xueyan Chen, Yinjun Zhang, Maoyun She, Jingjuan Zhang, Rowan Maddern, Ian Edwards, Dean Diepeveen, Shahidul Islam, and Wujun Ma**, *Crop and Pasture Science* 69:12 (2018), 1173-1181.

“Molecular Phylogeny and Systematics of the Centipede Genus *Ethmostigmus* Pocock (Chilopoda: Scolopendromorpha) from Peninsular India,” by **Jahnvi Joshi** and **Gregory E. Edgecombe**, *Invertebrate Systematics* 32:6 (2018), 1316-1335.

“Monitoring Changes in Soil Salinity and Sodicity to Depth, at a Decadal Scale, in a Semiarid Irrigated Region of Australia,” by **Patrick Filippi, Stephen R. Cattle, Thomas F.A. Bishop, Matthew J. Pringle, and Edward J. Jones**, *Soil Research* 56:7 (2018), 696-711.

“A Multi-Gene Phylogeny of Australian *Monomorium* Mayr (Hymenoptera: Formicidae) Results in Reinterpretation of the Genus and Resurrection of *Chelaner* Emery,” by **Kathryn S. Sparks, Alan N. Anderson, and Andrew D. Austin**, *Invertebrate Systematics* 33:1 (2019), 225-236.

“Multiple Molecular Markers Reinforce the Systematic Framework of Unique Australian Cave Fishes (*Milyeringa*: Gobioidae),” by **Timothy J. Page, Mark I. Stevens, Mark Adams, Ralph Foster, Alejandro Velasco-Castrillon, and William F. Humphreys**, *Australian Journal of Zoology* 66:2 (2018), 115-127.

“Naïve Rainforest Frogs on Cape York, Australia, are at Risk of the Introduction of Amphibian Chytridiomycosis Disease,” by **Conrad J. Hoskin, Harry B. Hines, Rebecca J. Webb, Lee F. Skerratt, and Lee Berger**, *Australian Journal of Zoology* 66:3 (2018), 174-178.

“Natural Flow Events Influence the Behavior and Movement Patterns of Eel-Tailed Catfish (*Tandanus tandanus*) in a Subtropical Queensland River,” by **Kate R. Burndred, Bernie J. Cockayne, James A. Donaldson, and Brendan C. Ebner**, *Australian Journal of Zoology* 66:3 (2018), 185-194.

“A New Australian Record of a Parajapidae (Diplura): A Potential Pest of Wheat,” by **Penelope Greenslade and Yun-Xia Luan**, *Soil Research* 56:7 (2018), 657-663.

“A New Genus and Species of an Unusual Australian Winter Bee Fly (Diptera:

Bombyliidae) with Discussion on its Phylogenetic Position,” by **Xuankun Li** and **David K. Yeates**, *Austral Entomology* 58:1 (2019), 192-203.

“A New Genus with Two New Capitata Species of Dimorphic Soft Corals (Octocorallia: Alcyoniidae) from North-Western Australia,” by **Monika Bryce** and **Nerida G. Wilson**, *Invertebrate Systematics* 33:1 (2019), 71-88.

“New Macrofossils of the Australian Cycad *Bowenia* and Their Significance in Reconstructing the Past Morphological Range of the Genus,” by **Robert S. Hill**, **Kathryn E. Hill**, **Raymond J. Carpenter**, and **Gregory J. Jordan**, *International Journal of Plant Sciences* 180:2 (2019), 128-140.

“New Populations of the Rare Subterranean Blind Cave Ell *Ophisternon candidum* (Synbranchidae) Reveal Recent Historical Connections Throughout North-Western Australia,” by **Glenn I. Moore**, **William F. Humphreys**, and **Ralph Foster**, *Marine & Freshwater Research* 69:10 (2018), 1517-1524.

“New Records of Two Decapod Crustaceans (Decapoda: Dendrobranchiata and Pleocyemata) from the Gulf of Mannar, India,” by **Vinay P. Padate**, **Mithila S. Bhat**, and **Chandrashekher U. Rivonker**, *Journal of Natural History* 52:33-34 (2018), 2209-2220.

“A New Species of *Friesea* (Collembola: Neanuridae) from the Antarctic Continent,” by **Penelope Greenslade**, *Journal of Natural History* 52:33-34 (2018), 2197-2207.

“A New Species of Gall Midge (Diptera: Cecidomyiidae) Feeding on Vegetative Buds of *Melaleuca quinquenervia* Trees in Australia,” by **Peter Kolesik**, **Bradley T. Brown**, and **Matthew F. Purcell**, *Austral Entomology* 57:4 (2018), 387-391.

“A New Species of *Lepidosperma* (Cyperaceae) Allied to *L. congestum* of Southern Australia,” by **George T. Plunkett**, **Jeremy J. Bruhl**, and **Karen L. Wilson**, *Australian Systematic Botany* 31:4 (2018), 357-372.

“A New Species of Tithaeidae (Arachnida: Opiliones: Laniatores) from Mindanao Reveals Contemporaneous Colonisation of the Philippines by Sunda Shelf Opiliofauna,” by **Stephanie M. Schmidt**, **Perry A.C. Buenavente**, **Darrell D. Blatchley**, **Arvin C. Diesmos**, **Mae L. Diesmos**, **David Emmanuel M. General**, **Alma B. Mohagan**, **Dale Joy Mohagan**, **Ronald M. Clouse**, and **Prashant P. Sharma**, *Invertebrate Systematics* 33:1 (2019), 237-251.

“A New Subfamily of Fossorial Colubroid Snakes from the Western Ghats of Peninsular India,” by **V. Deepak**, **Sara Ruane**, and **David J. Gower**, *Journal of Natural History* 52:45-46 (2018), 2919-2934.

“The New Zealand Grass *Simplica*: Biogeography, Ecology and Tectonics,” by **Michael Heads**, *Australian Systematic Botany* 31:4 (2018), 281-295.

“Organic Amendments Increased Sweetpotato (*Ipomoea batatas* L.) Yield in a Calcareous Sandy Soil of Samoa,” by **Taniela K. Siose, Danilo F. Guinto, and Mohammed A. Kader**, *The South Pacific Journal of Natural and Applied Sciences* 36:1 (2018), 36-45.

“Origin and Geodynamics of Neoproterozoic Mafic Dikes in Western Shandong, Northeastern North China Craton: Geochronological, Geochemical, and Nd-Hf Isotopic Evidence,” by **Shen Liu, Caixia Feng, M. Santosh, Guangying Feng, Mengjing Xu, Yan Fan, and Ian M. Coulson**, *The Journal of Geology* 127:1 (2019), 61-79.

“A Paleoproterozoic Aeolianite (the Nummana Member) from the Lower Wyloo Group, Pilbara Craton, Western Australia, and Its Implication,” by **Rajat Mazumder**, *The Journal of Geology* 127:1 (2019), 109-118.

“*Paraskusella* gen. nov., a new Afro-Australian Genus in the Tribe Chironomini (Diptera: Chironomidae),” by **Peter S. Cranston**, *Austral Entomology* (2018), available online at <https://onlinelibrary.wiley.com>.

“Petrogenesis and Tectonic Implications of the Yuhuashan A-Type Volcanic-Intrusive Complex and Mafic Microgranular Enclaves in the Gan-Hang Volcanic Belt, Southeast China,” by **Kui-Dong Zhao, Guo-Qi Liu, and Shao-Yong Jiang**, *The Journal of Geology* 127:1 (2019), 37-59.

“Phenotypic and Genotypic Signature of Saponin Chemical Composition in Chinese Wild Soybean (*Glycine soja*): Revealing Genetic Diversity, Geographical Variation and Dispersal History of the Species,” by **Yuya Takahashi, Xiang-Hua Li, Chigen Tsukamoto, and Ke-Jing Wang**, *Crop & Pasture Science* 69:11 (2018), 1126-1139.

“Phylogenetic Diversity and Conservation of Rainforests in the Sunshine Coast Region, Queensland, Australia,” by **Liam Scanlan, William. J.F. McDonald, and Alison Shapcott**, *Australian Journal of Botany* 66:7 (2018), 518-530.

“Phylogenetic Placement and Redescription of *Aleochara* Blackburni Bernhauer & Scheerpeltz, 1926 (Coleoptera: Staphylinidae) from Coastal Australia,” by **Jeong-Hun Song, Andrew W. Osborn, Mario Elgueta, and Kee-Jeong Ahn**, *Austral Entomology* 58:1 (2019), 76-84.

“*Corrigendum* to: The Phylogenetic Placement of Australian Linderniaceae and Implications for Genetic Taxonomy,” by **Ed Biffin, W.R. (Bill) Barker, Bruce Wannan, and Yi-Shuo Liang**, *Australian Systematic Botany* 31:4 (2018), 373-373.

“Phylogeny and Staminal Evolution of *Salvia* (Lamiaceae, Nepetoideae) in East Asia,” by **Guo-Xiong Hu, Atsuko Takano, Bryan T. Drew, En-De Liu, Douglas E. Soltis, Pamela S. Soltis, Hua Peng, and Chun-Lei Xiang**, *Annals of Botany* 122:4 (2018), 649-668.

“Phylogeny and Hesionidae (Aciculata, Annelida), with Four New Species from Deep-Sea Eastern Pacific Methane Seeps, and Resolution of the Affinity of *Hesiolyra*,” by **Greg W. Rouse, Jose Ignacio Carvajal, and Fredrik Pleijel**, *Invertebrate Systematics* (2018), available online at <https://doi.org/10.1071/IS17092>.

“Plankton Ciliate Community Responses to Different Aquatic Environments in Nan’ao Island, a Representative Mariculture Base in the South China Sea,” by **Fengxia Wu, Ming Dai, Honghui Huang, and Zhanhui Qi**, *Marine & Freshwater Research* 70:3 (2018), 426-436.

“Polychaetes (Annelida) of the Oceanic Shoals Region, Norther Australia: Considering a Small Macrofauna in Marine Management,” by **Rachel Przeslawski, Christopher J. Glasby, and Scott Nichol**, *Marine & Freshwater Research* 70:3 (2018), 307-321.

“Population Demography and Biology of a New Species of Giant Spiny Trapdoor Spider (Araneae: Idiopidae: *Euoplos*) from Inland Queensland: Developing a ‘Slow Science’ Study System to Address a Conservation Crisis,” by **Michael G. Rix, Jeremy D. Wilson, Alan G. Rix, Aleena M. Wojcieszek, Joel A. Huey, and Mark S. Harvey**, *Austral Entomology* (2018), available online at <https://onlinelibrary.wiley.com>.

“Possible Drivers of a *Chrysosporum ovalisporum* Bloom in the Murray River, Australia, in 2016,” by **Lee Bowling, Darren Baldwin, Chester Merrick, John Brayan, and Jared Panther**, *Marine & Freshwater Research* 69:11 (2018), 1649-1662.

“Potential of Shells of Three Species of Eastern Australian Freshwater Mussels (Bivalvia: Hyriidae) as Environmental Proxy Archives,” by **D. Herath, D.E. Jacob, H. Jones, and S.J. Fallon**, *Marine & Freshwater Research* 70:2 (2018), 255-269.

“Predicting Hydraulic Structure-Induced Barotrauma in Australian Fish Species,” by **Brett D. Pflugrath, Craig A. Boys, and Bruce Cathers**, *Marine and Freshwater Research* 69:12 (2018), 1954-1961.

“Reduction in Leafroller (Lepidoptera: Tortricidae) Abundance in Orchards and Vineyards, 1976-2016, in Hawke’s Bay, New Zealand,” by **Peter L. Lo, James T.S. Walker, Duncan I. Hedderley, and Lyn M. Cole**, *Agricultural and Forest Entomology* 20:4 (2018), 505-513.

“Reinvented Places: ‘Tradition,’ ‘Family Care,’ and Psychiatric Institutions in

Japan,” by **Susan L. Burns**, *Social History of Medicine* 32:1 (2019), 99-120.

“The Relationship between Basin Hypsometric Integral Scale Dependence and Rock Uplift Rate in a Range Front Area: A Case Study from the Coastal Range, Taiwan,” by **Yen-Chieh Chen, Kuang-Yu Cheng, Wen-Shu Huang, Quo-Cheng Sung, and Heng Tsai**, *The Journal of Geology* 127:2 (2019), 223-239.

“The Relationship between Environmental Variables, Detection Probability and Site Occupancy by Tasmanian Nocturnal Birds, Including the Tasmanian Masked Owl (*Tyto novaehollandiae castanops*),” by Michael K. Todd, Rodney P. Kavanagh, Trent D. Penman, Phil Bell, and Sarah A. Munks, *Australian Journal of Zoology* 66:2 (2018), 139-151.

“Relative Importance of Biological and Human-Associated Factors for Alien Plant Invasions in Hokkaido, Japan,” by **Chika Egawa, Takeshi Osawa, Tomoko Nishida, and Yasuto Furukawa**, *Journal of Plant Ecology* (2019), available online at <https://academic.oup.com/jpe/>.

“Reproductive Strategy of the Pacific Cownose Ray *Rhinoptera steindachneri* in the Southern Gulf of California,” by **Maria I. Burgos-Vazquez, Valeria E. Chavez-Garcia, Victor H. Cruz-Escalona, Andres F. Navia, and Paola A. Mejia-Falla**, *Marine and Freshwater Research* 70:1 (2018), 93-106.

“Resolving Distribution and Population Fragmentation in Two Leaf-Tailed Gecko Species of North-East Australia: Key Steps in the Conversation of Microendemic Species,” by **Lorenzo V. Bertola, Megan Higgie, and Conrad J. Hoskin**, *Australian Journal of Zoology* 66:2 (2018), 152-166.

“Responses of Nighttime Sap Flow to Atmospheric and Soil Dryness and its Potential Roles for Shrubs on the Loess Plateau of China,” by Weiwei Fang, Nan Lu, Yu Zhang, Lei Jiao, and Bojie Fu, *Journal of Plant Ecology* 11:5 (2018), 717-729.

“Revision of *Chaetarthria* Stephens (Coleoptera: Hydrophilidae) in China, with a Key to the Species in the Oriental Region,” by **Fenglong Jia, Shi-shuai Wang, and Paul Aston**, *Journal of Natural History* 52:37-38 (2018), 2369-2384.

“Revision of *Scatella* (Neoscatella) (Diptera: Ephydriidae) from the New Zealand Subregion,” by **Daniel N.R. Costa, Wayne N. Mathis, and Luciane Marinoni**, *Austral Entomology* 58:1 (2019), 85-95.

“Revision of the Hermetiinae of Australia (Diptera: Stratiomyidae),” by **Bryan D. Lessard, David K. Yeates, and Norman E. Woodley**, *Austral Entomology* 58:1 (2019), 122-136.

“A Revision of the Wasp Genus *Pison* Jurine, 1868 of Australian and New

Zealand, New Guinea, and the Pacific Islands (Hymenoptera: Crabronidae),” by **Wojciech Pulawski**, *Proceedings of the California Academy of Sciences*, series 4, volume 65, supplement III (2018), 1-584 with 1376 figures.

“The Role of Antarctica in Biogeographical Reconstruction: A Point of View,” by **Manuel de la Estrella, Sven Buerki, Thais Vasconcelos, Eve J. Lucas, and Felix Forest**, *International Journal of Plant Sciences* 180:1 (2019), 63-71.

“For Science, Salvage, and State: Papua New Guinea’s Earliest Colonial Museums,” by **Anna Edmundson**, *The Journal of Pacific History* 54:1 (2019), 96-115.

“Seven New Species of the Genus *Pseudostegana* (Diptera: Drosophilidae) from South-West China, with DNA Barcoding Information,” by **Lu Gong and Hongwei Chen**, *Journal of Natural History* 52:31-32 (2018), 2097-2119.

“Shadow Waters: Making Australian Water Cultures Visible,” by **Jessica McLean, Aleshia Londsdale, Laura Mannersley, Emily O’Gorman, and Fiona Miller**, *Transactions of the Institute of British Geographers* (2018), available online at <https://rgs-ibg.onlinelibrary.wiley.com/journal/14755661>.

“Smoke Ring: From American Tobacco to Japanese Data,” by **Sarah Milov**, *Osiris* 33:1 (2018), 319-339.

“Soil Erodibility Affected by Vegetation Restoration on Steep Gully Slopes on the Loess Plateau of China,” by **Bao-jun Zhang, Guang-hui Zhang, Han-yue Yang, Hao Wang, and Ning-ning Li**, *Soil Research* 56:7 (2018), 712-723.

“Spatiotemporal Variations of CO₂ Fluxes in a *Cynodon*-dominated Riparian Zone of the Three Gorges Reservoir (TGR), China,” by **Wenli Zhang, Jiquan Chen, Ju Liu, Fangqing Chen, and Quanfa Zhang**, *Journal of Plant Ecology* 11:6 (2018), 877-886.

“Spatial Ecology of an Urban Eastern Grey Kangaroo (*Macropus giganteus*) Population: Local Decline Driven by Kangaroo-Vehicle Collisions,” by **Elizabeth A. Brunton, Sanjeev K. Srivastava, and Scott Burnett**, *Wildlife Research* 45:8 (2018), 685-695.

“Species Composition, Abundance and Seasonal Recruitment Patterns of Freshwater Eels (*Anguilla* spp.) to Viti Levu, Fiji Islands, in the Western South Pacific,” by **C.A. Hewavitharane, T.D. Pickering, R. Ciro, and N. Mochioka**, *Marine & Freshwater Research* 69:11 (2018), 1704-1711.

“Species Richness and Composition of Shrub-Encroached Grasslands in Relation to Environmental Factors in Northern China,” by **Luhong Zhou, Haihua Shen, Leiyi Chen, He Li, and Pujin Zhang**, *Journal of Plant Ecology* 12:1 (2019), 56-66.

“Spirits of Yokokurayama: Shrine of the Japanese Trilobites,” by **Christopher Stocker, Mark Williams, Tatsuo Oji, Gengo Tanaka, Toshifumi Komatsu,** and **Simon Wallis**, *Geology Today* 35:1 (2019), 15-19.

“Starting up Biology in China: Performances of Life at BGI,” by **Hallam Stevens**, *Osiris* 33:1 (2018), 85-106.

“Systematic Revision and Phylogenetic Reassessment of the Centipede Genera *Rhysida* Wood, 1862 and *Alluopus* Silvestri, 1912 (Chilopoda: Scolopendromorpha) in Southeast Asia, with further Discussion of the Subfamily Otostigminae,” by **Warut Siriwut, Gregory E. Edgecombe, Chirasak Sutcharit, Piyoros Tongkerd,** and **Somsak Panha**, *Invertebrate Systematics* 32:5 (2018), 1005-1049.

“Systematic Revision, Diversity Patterns and Trophic Ecology of the Tropical Indo-West Pacific Sea Slug Genus *Phanerophthalmus* A. Adams, 1850 (Cephalaspidea, Haminoeidae),” by **Jennifer Austin, Terrence Gosliner,** and **Manual A.E. Malaquias**, *Invertebrate Systematics* 32:6 (2018), 1336-1387.

“Systematic Study of the Australian Plant Bug Genus *Xasmasoma*, gen. nov. (Insecta: Heteroptera: Miridae: Orthotylinae), Including Host Plant and Biogeographic Analysis, and Description of Twelve New Species,” by **Marina Cheng** and **Gerasimos Cassis**, *Invertebrate Systematics* 33:1 (2019), 1-70.

“Taxonomic Revision of the Euploea Alcatheae Complex (Lepidoptera: Nymphalidae) from Australia and New Guinea,” by **Trevor A. Lambkin, Michael F. Braby, Rodney G. Eastwood,** and **Myron P. Zalucki**, *Austral Entomology* 58:1 (2019), 52-75.

“Temporal Changes in Threatened Ephemeral Claypans over Annual and Decadal Timescales in South-West Australia,” by **N. Gibson, K. Brown,** and **G. Paczkowska**, *Australian Journal of Botany* 66:8 (2019), 609-617.

“Testing Mechanisms Underlying Elevational Patterns of Lakeshore Plant Community Assembly in Poyang Lake, China,” by **Zhichun Lan, Yasong Chen, Lei Li, Feng Li, Binsong Jin,** and **Jiakuan Chen**, *Journal of Plant Ecology* (2018), available online at <https://academic.oup.com/jpe/>.

“Theology, Idolatry and Science: John Williams’ Missionary Ethnography and Natural History of the South Pacific,” by **Sarah Irving-Stonebraker**, *Journal of Religious History* 42:3 (2018), 343-358.

“Trends in Extreme Climatic Indices across the Temperate Steppes of China from 1961-2013,” by **Yang Li, Yujui Wang,** and **Jianmin Song**, *Journal of Plant Ecology* (2018), available online at <https://academic.oup.com/jpe/>.

“Understanding the Long-Term Impact of Prescribed Burning in Mediterranean-Climate Biodiversity Hotspots with a Focus on South-Western Australia,” by **S.D. Bradshaw, K.W. Dixon, H. Lambers, A.T. Cross, J. Bailey, and S.D. Hopper**, *International Journal of Wildland Fire* 27:10 (2018), 643-657.

“Untangling the *Echiniscus* Gordian Knot: *Stellariscus* gen. nov. (Heterotardigrada: Echiniscidae) from Far East Asia,” by **Piotr Gasiorek, Atsushi C. Suzuki, Reinhardt M. Kristensen, Dorota Lachowska-Cierlik, and Lukasz Michalczyk**, *Invertebrate Systematics*, 32:5 (2018), 1234-1247.

“Using Evidence of Decline and Extinction Risk to Identify Priority Regions, Habitats, and Threats for Plant Conservation in Australia,” by **J.L. Silcock and R.J. Fensham**, *Australian Journal of Botany* 66:7 (2018), 541-555.

“Utilisation of Stranded Marine Fauna Washed Ashore on K’gari (Fraser Island), Australia, by Dingoes,” by **Linda Behrendorff, Luke K-P. Leung, and Benjamin L. Allen**, *Australian Journal of Zoology* 66:2 (2018), 128-138.

“Variable Reptile Responses to Introduced Predator Control in Southern Australia,” by **Yang Hu, Graeme Gillespie, and Tim S. Jessop**, *Wildlife Research* 46:1 (64-75 (2019), 64-75.

“Variations in the Intrinsic Water-Use Efficiency of North Patagonian Forests Under a Present Climate Change Scenario: Tree Age, Site Conditions and Long-Term Environmental Effects,” by **J.G. Arco Molina, G. Helle, M.A. Hadad, and F.A. Roig**, *Tree Physiology* (2019), available online at <https://academic.oup.com/treephys/>.

“Warming and CO₂ Enrichment Modified the Ecophysiological Responses of Dahurian Larch and Mongolia Pine during the Past Century in the Permafrost of Northeastern China,” by **Xiaohong Liu, Liangju Zhao, Steven Voelker, Guobao Xu, Xiaomin Zeng, Xuanwen Zhang, Lingnan Zhang, Weizhen Sun, Qiuliang Zhang, Guoju Wu, and Xiaoqin Li**, *Tree Physiology* 39:1 (2019), 88-103.

“Water Temperature Correlates with Baleen Whale Foraging Behaviour at Multiple Scales in the Antarctic,” by **Kylie Owen, K. Curt S. Jenner, Micheline-Nicole M. Jenner, Robert D. McCauley, and Russel D. Andrews**, *Marine and Freshwater Research* 70:1 (2018), 19-32.

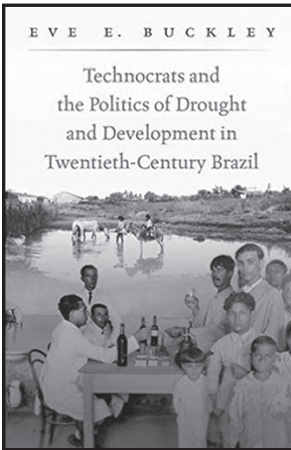
“Western and Indigenous Knowledge Converge to Explain Melaleuca Forest Dieback on Aboriginal Land in Northern Australia,” by **Daniel R. Sloane, Emilie Ens, Jimmy Wunungmurra, Andrew Falk, Gurrundul Marika, Mugurrapin Maymuru, Gillian Towler, Dave Preece, and the Yirralka Rangers**, *Marine and Freshwater Research* 70:1 (2018), 125-139.

“What was the Vegetation of Northwest Australia During the Paleogene, 66-23

Million Years Ago?” by **Michael K. Macphail** and **Robert S. Hill**, *Australian Journal of Botany* 66:7 (2019), 556-574.

“Whole-Plant Reconstruction and Updated Phylogeny of *Austrohamia acanthobracteata* (Cupressaceae) from the Middle Jurassic of Northeast China,” by **Chong Dong**, **Yong-Dong Wang**, **Xiao-Ju Yang**, and **Bai-Nian Sun**, *International Journal of Plant Sciences* 179:8 (2018), 640-662.

BOOK REVIEW



Eve E. Buckley, *Technocrats and the Politics of Drought in Twentieth-Century Brazil*, Chapel Hill, NC: University of North Carolina Press, 2017, 298 pp. 10 Illustrations. 2 Maps. Table. Notes. Bibliography. Index. Paper \$29.95 and ISBN 978-1-4696-3430-2.

Historian of science, Eve Buckley, explores in this book how scientists, engineers, economists, and bureaucrats tried to solve the twin problems of chronic drought and debilitating poverty in Northeastern Brazil over the 20th century. This area, called “the Sertao,” was a vast expanse of land consisting of coastline, which was where most cities and population were, and the interior, which was dry and inhabited by cattle ranchers and thousands of “*sertanejos*,” poor and uneducated people, who often worked for the ranchers. Unfortunately, life for *sertanejos* was extremely difficult because they earned pitiful wages, food was limited in quality and quantity, clean water could be scarce, there were few public health services or schools, and homes lacked both running water and hygienic waste removal systems. When the droughts came, as they did periodically, many tried to migrate to the cities to find work and shelter, but the cities had a tough time handling this massive influx of people, and the result tended to be rampant diseases, starvation, and a huge number of preventable deaths. Brazilians in the south of the country, especially in the capital of Sao Paulo, tended to ignore the problems of the *sertao*, in part due to their racist attitudes towards former slaves and indigenous people who inhabited the northeast. Yet each time the government changed hands,

it became clear to the new leadership that the problems of the *sertao* posed a serious problem to the country's economic health and growing modernity. Then they tried to figure out what to do about the drought and poverty cycle.

In tracking this very complex story, Buckley zeroes in on the entrenched social and political dynamic between the ranchers, the *sertenajos*, and the government in southern Brazil, often represented by the various expert groups sent to fix the problems of the northeast. If the key problem was the persistent poverty of the *sertenajos*, perhaps the solution was to address this through various techno-scientific approaches including public health, education, and the creation of smallholder communities furnished with irrigated fields. However, the rancher and rural elite did not see this approach as in their own best interests, and consistently fought to prevent such measures from being implemented. The poverty and lack of education of the *sertenajos*, it seemed, was precisely what allowed the rural aristocracy to thrive. By paying starvation wages for field workers, landowners were able to continue field operations as well as increase land acquisition.

If the key problem was periodic drought, as the engineers tended to think, then the solution was the building of big dams and reservoirs that could capture and store water during the normal rainy season, and provide relief in those years when the rains did not come. However, even when the government-based engineers pushed for this, those allocating the funding – politicians in the northeast as well as those in the federal government – had a hard time choosing to help a region so long regarded as backward and hopeless. Similarly, if the key problem was chronic and debilitating disease, given that several reports in 1920 found that at least 90% of the rural population had hookworm and/or parasites, then it would be urgent to establish health clinics and hospitals, and to remove standing water, educate people about disease transmission, and teach public hygiene. While the Rockefeller's International Health Board did establish a number of demonstration sites throughout the northeast, they agreed with the country's leadership that real progress could not be made in such a "backward" region, preferring to show the power of modern medicine and hygiene in urban Sao Paulo.

Time and time again, the government established new bureaus and directorates that aimed to improve the situation in the *sertao*. Leaders were drafted, research was conducted, listening tours were taken, and ambitious reports were written. Buckley argues that many of these efforts were sincere and well-intentioned; indeed, anyone who toured the *sertao* tended to immediately comprehend the extent of the disaster there, while those who governed from far-away Sao Paulo tended not to understand the depth of the problem or its cost to the state. Over the 20th century some progress was made. Several large dams and reservoirs were built, some irrigation canals were dug, some health clinics were established, and some smallholder plots were created

for the *sertanejos*. But it added up to a mere drop in the bucket compared to the promises made and the needs of the rural population. Thus it is difficult to not be a bit cynical about the intentions of the leadership all the way through.

Buckley links her analysis of the drought/poverty story to the work of Amartya Sen, who argued that drought and hunger are never just facts of nature and climate. They are always also the result of political and social inaction and indifference. Certainly the *sertao* story seems to bear this out, and Buckley's analysis suggests that more studies of poverty and climate in other parts of the world will reveal similar results – that first, the state's unreflective confidence in science and technology to solve problems of hunger and poor health are both foolish and dangerous; and second, problems of health and hunger will only be solved by addressing the core problem of social and political interests that protect the elites and punish the poor.

This is an important book. Buckley did a remarkable amount of archival research, particularly in Brazil, which enables her to tell a story that is both familiar and still shocking. The accompanying photographs speak volumes about both the landscape and the people, suggesting a kind of netherworld that few of us have encountered. Her analysis is fair and thoughtful, and her argument is quite clear. As a case-study that elaborates on a growing theme in the development literature, it is a must-read for everyone who is concerned about the links between science, technology, bureaucracy, and human misery.

Deborah Fitzgerald
Massachusetts Institute of Technology



SUBSCRIPTION and STAFF INFORMATION

The Bulletin of the Pacific Circle is the communication medium of the Pacific Circle, organized in 1985 to promote and assist scholarship in the practice, history and social studies of Pacific science. The Circle is a commission of the International Union of the History and Philosophy of Science.

The Bulletin is distributed twice a year with the assistance of the Department of History, University of Hawai'i, Manoa.

Membership in the Circle, which includes *The Bulletin*, is available at a cost of US\$25 per year for individuals and US\$35 for institutions. Additional contributions in any amount to support the costs of production and distribution will be gratefully accepted and can be made online. Subscriptions cannot be processed online.

Checks or money orders should be made payable to "The University of Hawaii Foundation" (please note "Pacific Circle" on the memo line) and sent to the Editor:

Prof. Peter H. Hoffenberg
 Editor, *Bulletin of the Pacific Circle*
 Department of History, Sakamaki Hall
 University of Hawai'i
 Honolulu, Hawai'i 96822 USA

Phone: (808) 956-7675

Fax: (808) 956-9600

Email: peterh@hawaii.edu

Web Site: <http://thepacificcircle.com>

Credit card charges (VISA and Mastercard only) can also be accepted. Please supply the following information to the Editor:

Your Name (as it appears on the card)

Account Number

Card Type (VISA or Mastercard)

Expiration Date

Amount to be Charged in US\$'s

Please note: For overseas accounts, please include the **security code number** on the back of the card. The University of Hawai'i Foundation requires that to process overseas charges. This and all other financial information is confidential and treated accordingly.

Bulletin Staff

Editor: Peter H. Hoffenberg
Editorial Assistant: Michael P. Kline

Pacific Circle Officers

President: Warwick H. Anderson
Vice-Presidents: Zuoyue Wang and Roy MacLeod
Secretary/Treasurer: Peter H. Hoffenberg
Council Members: Antony Adler
Anthony Ballantyne
John Gascoigne
Jianjun Mei
Buhm Soon Park
Miao Tian
Christine Winter

Ex-Officio Council Members: Jacob Hamblin
Michael Osborne



