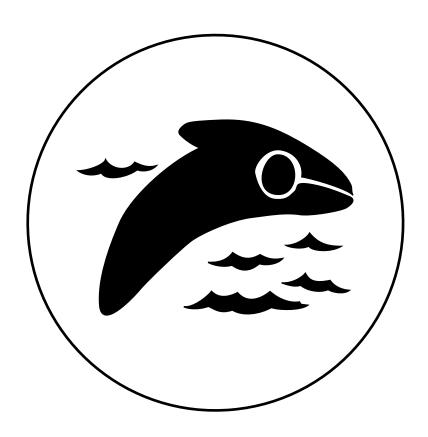
Pacific Coast Archaeological Society Quarterly

Volume 35, Number 4 Fall, 1999



Issue Editors

Publication Committee

Production Editors Editor Emeritus Seetha N. Reddy and Stan Berryman Irene Brace, Constance Cameron, Bob and

Polly Kennison, Jack Lissack, Laura Lee Mitchell, Ivan Strudwick, W. L. Tadlock Beth and Chris Padon, Jerry Dickey

Lavinia Knight

Pacific Coast Archaeological Society Quarterly

The *Pacific Coast Archaeological Society Quarterly* is a publication of the Pacific Coast Archaeological Society (PCAS), which was organized in 1961. PCAS is an avocational group formed to study and to preserve the anthropological and archaeological history of the original inhabitants of Orange County, California, and adjacent areas.

The Publications Committee invites the submittal of original contributions dealing with the history and prehistory of the area. Although PCAS is especially interested in reports which shed further light on the early inhabitants of Orange County, it is always interested in reports on the wider Pacific Coast region.

Subscription to the *Pacific Coast Archaeological Society Quarterly* costs \$35 for calendar year 2001. The PCAS also publishes a monthly newsletter, which is \$15 for calendar year 2001. There is an additional postage charge for foreign subscriptions: \$9 for the *Pacific Coast Archaeological Society Quarterly* and \$4 for the *PCAS Newsletter*. Back issues of the *Pacific Coast Archaeological Society Quarterly* are available for \$12 per single issue (including postage and handling). A complete list of the articles in previous issues is included in the 25-year index published as Volume 25, Number 4, (1989) and the 5-year supplement published as Volume 32 Supplement (1996). Two *Occasional Papers*, on Catalina Island and on Mexican Majolica, also have been published by PCAS. To place an order, or to receive information about the Pacific Coast Archaeological Society, or to submit an article for publication, write to: Pacific Coast Archaeological Society, P.O. Box 10926, Costa Mesa, California, 92627, email: info@pcas.org. PCAS is not responsible for delivery of publications to subscribers who have not furnished a timely change of address. Articles appearing in the *Pacific Coast Archaeological Society Quarterly* are abstracted in *Historical Abstracts* and *America: History and Life*.

Recent issues of the *Pacific Coast Archaeological Society Quarterly* appear on the Internet at www.pcas.org where they can be downloaded and viewed, but not printed. This issue of the *Pacific Coast Archaeological Society Quarterly* is copyrighted © 1998-2000 by the Pacific Coast Archaeological Society. ISSN 0552-7252.

PCAS Officers 1999

President Jane Gothold
Vice President Sydney Eilenberg
Secretary Kathleen Long
Treasurer Pat Hearle

Contents

Cultural Dimensions of Time: New Perspectives on the Archaeology of Camp Pendleton, Southern California, Part II

The Interpretive Potential of Micromorphological Analysis at Prehistoric Shell Midden Sites on Camp Pendleton
Comments on the Interpretive Potential of Micromorphological Analysis at Prehistoric Shell Midden Sites on Camp Pendleton
Plant Usage and Prehistoric Diet: Paleoethnobotanical Investigations on Camp Pendleton, Southern California
Temporal Variation in Vertebrate Archaeofaunas From Camp Pendleton Marine Corps Base, San Diego County, California
The Nineteenth Century Physical Geography of the Camp Pendleton Coastline
Contributions to Luiseño Ethnohistory Based on Mission Register Research
Comments on Contributions to the Prehistory and Archaeology of Camp Pendleton

Please note that this issue was printed in July, 2001.

About the Authors

Stan Berryman has 23 years of experience in cultural resource management including historic and prehistoric archaeology. He has directed projects in California, Nevada, Oregon, Arizona, Nebraska and other areas within the U.S. Mr. Berryman has been the Base Archaeologist at Camp Pendleton Marine Corps Base since 1996.

Brian F. Byrd earned his Ph.D. in 1987 from the University of Arizona. He is a Senior Archaeologist at ASM Affiliates and an Associate Adjunct Professor at the University of California, San Diego. His research in the Near East and western North America is focused on complex hunter-gatherers, and the origins of sedentism and food production. He has published in *American Antiquity*, *Journal of Anthropological Archaeology*, *Journal of Archaeological Research*, *Journal of Field Archaeology*, and *Journal of World Prehistory*.

Dinah J. Crawford received her B.A. in physical anthropology from the University of California at Santa Barbara in 1996 and a M.A. in Museum Studies at the California State University, San Francisco in 2000. She previously worked at the Santa Barbara Museum of Natural History as a research assistant when the research for this aticle was carried out. She currently works at the California Academy of Sciences in San Francisco as a Curatorial Assistant in the Anthroplogy Department.

Wayne Engstrom earned his B.S. and M.S. degrees at Illinois State University and his Ph.D. at the University of Wisconsin. He is a Professor of Geography at California State University, Fullerton and is a physical geographer with an emphasis on coastal geomorphology. Currently he is working on a book on the nineteenth century coastal landscape of southern California.

Michael Glassow earned his Ph.D. in Anthropology at the University of California at Los Angeles. He is a Professor in the Department of Anthropology at the University of California at Santa Barbara. He has worked extensively in the Santa Barbara Channel and adjacent regions, and the American Southwest including New Mexico. His anthropological research in coastal California has focused on middle and late Holocene cultural developments with emphasis on subsistence change, settlement patterns, and population growth.

Paul Goldberg received his B.A. in geology at the University of Colorado, Boulder, and his M.S. and Ph.D. degrees in geology at the University of Michigan. He is an international authority in the fields of geomorphology, geoarchaeology, micromorphology, and site formation processes. Dr. Goldberg has extensive experience in the archaeology and geology of the Near East and North America. He is currently an Associate Professor in the Department of Archaeology, Boston University, and associate editor of the journal *Geoarchaeology*.

John R. Johnson received his Ph.D. in Anthropology from the University of California at Santa Barbara. He is Curator of Anthropology at the Santa Barbara Museum of Natural History, a post he has held since 1986. His research and publications focus on California Indian ethnohistory and Santa Barbara regional prehistory. In particular he has specialized in the use of mission records and other archival documents to elucidate the social organization and demographic history of native peoples in Southern California.

L. Mark Raab obtained his Ph.D. in Anthropology from Arizona State University. He has over 25 years experience as a professional archaeologist in California, the American Southwest, American Southeast and Mexico. His research interests include the cultural ecology of prehistoric hunter-gatherers, maritime prehistory with special emphasis on San Clemente Island, and the application of archaeological models and research designs. He is currently Professor of Anthropology and director of the Center for Public Archaeology, California State University, Northridge.

Seetha Reddy received her Ph.D. from the University of Wisconsin in 1994. She is a senior archaeologist at ASM Affiliates, Inc., and a post-doctoral scholar at University of California, San Diego. She has conducted extensive fieldwork in south and northwest India, in California, and in Massachusetts. Her work has involved excavations, survey, ethnoarchaeological research and ethnographic studies. Her research interests range from subsistence and human behavior, agricultural ethnoarchaeology, dietary reconstruction, paleoethnobotany to GIS and locational modeling for coastal archaeology in California, and with early complex societies of South Asia.

Thomas Wake received his Ph.D. at the University of California at Berkeley in 1995. He is the Director of the University of California at Los Angeles Institute of Archaeology Zooarchaeology Laboratory. He has conducted field work in Alaska, California (Fort Ross in particular), Guatemala, Mexico, and Peru and studied numerous faunal assemblages from throughout California and the west, as well as Guatemala, Jordan, Mexico, New Zealand, and Peru. His interests include studying the relationship between diet, ethnicity, and social class, paleobiogeography, coastal archaeology, and bone tool manufacture and use.

Issue Note

This issue is the second issue of the cultural resource management studies complied by Seetha Ready and Stan Berryman for the Marine Corps Base, Camp Pendleton. The first issue on the archaeology of Camp Pendleton was published as *PCAS Quarterly*, Volume 35, No. 1, 1999. This issue includes the remaining articles presented at the Society for California Archaeology annual meetings in 1998. They also illustrate the wide range of archaeological investigations on the Marine Base and the use of highly technical approaches to interpret the prehistory. Michael Glassow provides an overall review and summary of the articles in this issue and Mark Raab's review of the Goldberg and Byrd article completes his summary of the Camp Pendleton articles found in *PCAS Quarterly*, Volume 35, No.1.

For increased readability, the editors are publishing Figures 1 and 2 from Stan Berryman's introduction in Volume 35, Number 1, 1999. These maps provide an overall orientation to the articles that follow.

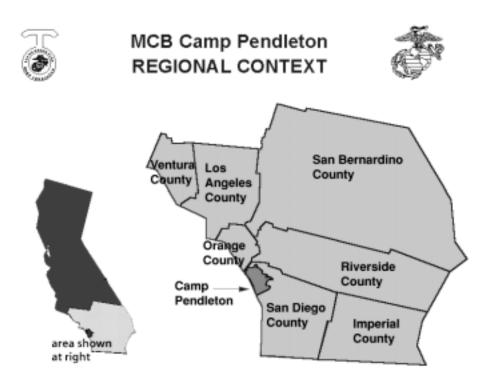


Fig. 1. Regional Location of Camp Pendleton Marine Corps Base.



Fig. 2. Camp Pendleton Topography.