

## CONTENTS

<b>Preface</b> .....	vii
<b>Introduction</b> .....	ix
<b>Vernal Pool Conservation, Research, and Education at the Jepson Prairie Preserve</b> RUSSELL HUDDLESTON .....	1
<b>Research Completed in the Vernal Pool Landscape at The Nature Conservancy's Vina Plains Preserve</b> ROBERT A. SCHLISING and BARBARA CASTRO.....	13
<b>Long-term Benefits to Vernal Pool Annuals May Outweigh Short-term Consequences of Livestock Grazing on the Modoc Plateau</b> KIRSTEN M. BOVEE, KYLE E. MERRIAM and MEREDITH C. GOSEJOHAN .....	27
<b>The Effects of Hydroregime on Vernal Pool Plant Communities in Northeastern California</b> KYLE E MERRIAM, MEREDITH C. GOSEJOHAN and PETER J. WEISBERG .....	45
<b>Falling in Love with Vernal Pools: How Splash Turns Kids into Conservationists</b> EVA S. BUTLER.....	61
<b>Ecocultural Species of Vernal Pool Ecosystems: Case Study from the Miwko? Waali?</b> DON L. HANKINS .....	71
<b>California Rapid Assessment Method Vernal Pool Module Validation</b> CARA CLARK.....	81
<b>Rings Around the Posies: Updates on the Classification of Vernal Pool Vegetation</b> CAROL W. WITHAM and JENNIFER BUCK-DIAZ.....	93
<b>Monitoring and Managing California Endemic Large Branchiopods</b> BRENT P. HELM .....	101

<b>Using Environmental DNA to Monitor Vernal Pool Organisms in California</b> SHANNON ROSE KIERAN, JOSHUA HULL and AMANDA FINGER.....	141
<b>Visualizing Diversity and Distribution Patterns for Microbial Communities in Vernal Pools</b> JORGE A. MONTIEL .....	153
<b>Phylogenetic and Taxonomic Complexity among the Vernal Pool Species and Near Relatives of <i>Navarretia</i> Section <i>Navarretia</i></b> LEIGH A. JOHNSON .....	169
<b>Multi-scale Assessment of Past Achievements and Future Directions for Vernal Pool Habitat Conservation, Great Valley, California</b> JOHN E. VOLLMAR and ERIC T. SMITH .....	191
<b>Topographic Restoration of a Leveled California Vernal Pool Terrain</b> ERIC T. SMITH and JOHN E. VOLLMAR .....	221
<b>A Simplified Classification and Water-Balance Model for the Efficient Characterization of Hydroperiod: Adaptive Habitat Management under Changing Climate</b> KEALIE PRETZLAV and BARRY HECHT .....	235
<b>Preserving Vernal Pool Landscapes One Property at a Time: How We Work within Our Socioeconomic System to Achieve Landscape-scale Conservation in California’s Great Valley</b> JOHN E. VOLLMAR .....	253
<b>A Longer View of Vernal Pool Biogeography</b> ROBERT F. HOLLAND.....	277
<b>Abstracts from Additional Conference Speakers .....</b>	281