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## Conservation and management of three imperiled West Coast butterflies: Bay, Quino, and Taylor's checkerspots

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Don Edwards San Francisco Bay National Wildlife Refuge

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Environmental Education Center  
1751 Grand Blvd, Alviso, CA 95002

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This workshop was organized by the following organizations:



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## Edith's Checkerspot Workshop | Day 1 | January 28<sup>th</sup>, 2014

<b>8:30</b>	<b>Welcome</b>	Scott Hoffman Black, <i>Xerces Society</i>
<b>8:45</b>	<b>Subspecies Intro/Overview</b>	
8:45	<a href="#">Phenology, topography, and population dynamics of the Bay checkerspot butterfly</a>	Stu Weiss <i>Creekside Science</i>
9:05	<a href="#">Idiosyncratic Ecological, Biological, and Behavioral Aspects of the Quino Checkerspot (<i>Euphydryas editha quino</i>) Adapted to Diverse Environmental and Climatological Conditions within its Southern Range</a>	Ken Osborne <i>Osborne Biological Consulting</i>
9:25	<a href="#">Taylor's Checkerspot Introduction (Rangewide)</a>	Elspeth Hilton Kim <i>Center for Natural Lands Management</i>
	<a href="#">Overview of Taylor's Checkerspot in British Columbia</a>	Jenny Heron <i>BC Ministry of the Environment</i>
9:45	<i>Break</i>	
<b>10:00</b>	<b>Habitat Restoration &amp; Management</b>	
10:00	<a href="#">Nonnative Grass Invasions on Bay Checkerspot Butterfly Habitat</a>	James Quenelle <i>Creekside Science</i>
10:20	<a href="#">Habitat Restoration/Management Options Available for Quino</a>	James Gannon <i>Bureau of Land Management</i>
	<a href="#">Challenges with Managing and Monitoring Quino Checkerspot Butterfly</a>	Kim Klementowski <i>Center for Natural Lands Management</i>
10:40	<a href="#">Restoring Habitat in South Puget Sound for Reintroduction of Taylor's Checkerspot Butterflies</a>	Peter Dunwiddie <i>Center for Natural Lands Management</i>
11:00	Discussion	Moderated by Scott Hoffman Black
<b>11:50</b>	<b>Lunch (provided)</b>	
<b>12:45</b>	<b>Institutional and Regulatory Landscape</b>	
12:45	<a href="#">Institutional Landscape for Bay checkerspot</a>	Stu Weiss <i>Creekside Science</i>
1:05	<a href="#">A Regional Approach to Management of Quino checkerspot in Western San Diego County</a>	Yvonne Moore <i>San Diego Management &amp; Monitoring Program</i>
	<a href="#">The Regulatory Landscape for Quino</a>	Eric Porter <i>Carlsbad FWS</i>
1:25	Discussion	Moderated by Scott Hoffman Black
2:15	<i>Break</i>	
<b>2:30</b>	<b>Advocacy, Media, and Education</b>	
2:30	<a href="#">Advocacy, media, and conservation of the Bay checkerspot butterfly</a>	Stu Weiss <i>Creekside Science</i>
2:50	<a href="#">The Importance of Engaging The Public, Local and State and Federal Agencies and Other Stakeholders in Listed Species Conservation</a>	Scott Hoffman Black <i>Xerces Society</i>
3:10	Discussion	Moderated by Scott Hoffman Black
<b>4:00</b>	<b>Adjourn</b>	

## Edith's Checkerspot Workshop | Day 2 | January 29<sup>th</sup>, 2014

### 8:30 Reintroductions: The How and The Why

- 8:30 Getting Started with the Quino Checkerspot Butterfly, *Euphydryas editha quino*, at the San Diego Zoo (*pdf not available*) Paige Howorth  
San Diego Zoo
- 8:50 [Considerations in Production Scale Rearing of Taylor's Checkerspot for Reintroduction](#) Karen Lewis  
Oregon Zoo
- 9:10 [Reintroducing Taylor's Checkerspot: Descent and Rebirth of the Dark Sister](#) Mary Linders  
WA Dept. of Fish and Wildlife
- 9:30 Break
- 9:40 [Bay Checkerspot Butterfly Reintroduction at Edgewood Preserve and Tulare Hill](#) Christal Niederer  
Creekside Science
- 10:00 [Quino Reintroduction Planning](#) Beau MacDonald  
Urban Wildlands Group
- [Steps to Implementing Reintroduction of Quino](#) Eric Porter  
Carlsbad Fish and Wildlife Service
- 10:20 Discussion Moderated by Scott Hoffman Black

### 11:10 Lunch (provided)

### 12:00 Climate Change and Beyond, Managing for Species in the 21st Century

- 12:00 [Nitrogen Overdose: The Biggest Environmental Change \(Almost\) Nobody Has Heard Of](#) Stu Weiss  
Creekside Science
- 12:20 [Changing Distribution Patterns of Quino Checkerspot in Response to a Changing Environment](#) Kristine Preston  
USGS
- 12:40 [The Rise and Fall of Taylor's Checkerspot on Denman Island, BC: Observations from a Rapidly Changing Landscape](#) Nick Page  
Raincoast Applied Ecology
- 1:00 Discussion Moderated by Scott Hoffman Black

### 1:50 Break

### 2:00 Wrap Up Discussion

*Moderated by Scott Hoffman Black, Xerces Society*

### 4:00 Adjourn