



## MEDECOS XII

### *Linking Science to Resource Management*

The International Mediterranean Ecosystems Conference  
September 6-9, 2011 – Los Angeles, California, United States

---

Hosted by:

**UCLA** Institute of the Environment and Sustainability

---

UCLA La Kretz Center for  
California Conservation Science



UCLA Stunt Ranch  
Santa Monica Mountains Reserve

## CONFERENCE SCHEDULE OVERVIEW

Monday Sept 5	Tuesday Sept 6	Wednesday Sept 7	Thursday Sept 8	Friday Sept 9
OPTIONAL FIELD TRIPS	8:00am Registration	<b>8:30am</b>	<b>8:30am</b>	<b>8:30am</b>
	<b>9:00am</b> <b>PLENARY SESSIONS</b>	<b>CONCURRENT</b> <b>SESSIONS</b>	<b>CONCURRENT SESSIONS</b>	<b>CONCURRENT</b> <b>SESSIONS</b>
	Coffee Break	Coffee Break	Coffee Break	Coffee Break
	<b>11:00am</b> <b>PLENARY SESSIONS</b>	<b>11:00am</b> <b>CONCURRENT</b> <b>SESSIONS</b>	<b>11:00am</b> <b>CONCURRENT SESSIONS</b>	<b>11:00am</b> <b>PLENARY SESSIONS</b>
	Lunch	Lunch	Lunch	Lunch
	<b>2:00pm</b> <b>CONCURRENT</b> <b>SESSIONS</b>	<b>2:00pm</b> <b>CONCURRENT</b> <b>SESSIONS</b>	<b>3:00pm - 9:30pm</b>  <b>FIELD TRIP</b> <b>Dinner and Music at</b> <b>Paramount Ranch</b>	<b>2:00pm</b> <b>PLENARY SESSIONS</b>
	Coffee Break	Coffee Break		
	<b>4:00pm</b> <b>CONCURRENT</b> <b>SESSIONS</b>	<b>4:00pm</b> <b>CONCURRENT</b> <b>SESSIONS</b>		
5:30pm – 8:00pm <b>Early</b> <b>Registration</b> <b>/ Reception</b>	Free evening	<b>6:00pm – 9:00pm</b> <b>COVEL RECEPTION,</b> <b>FOOD, WINE TASTING</b> <b>and</b> <b>POSTER SESSION</b>		<b>3:30 Conference Closes</b>

**MEDECOS XII: *Linking Science with Resource Management***  
**Technical Program**

**TUESDAY, SEPTEMBER 6**

	Auditorium
8:00	<b>Registration and Refreshments</b>
	<b>PLENARY SESSIONS</b>
9:00 – 9:15	<b><i>Conference Opening</i></b> ❖ <b>Victoria Sork</b> ❖ <b>Glen MacDonald</b> ❖ <b>Phil Rundel</b> ❖ <b>Felicia Federico</b>
9:15 – 9:45	<i>Keynote-</i> <b>Hal Mooney</b> – MEDECOS, Looking Back and the Future
9:45 – 10:15	<i>Keynote-</i> <b>Ray Sauvajot</b> - Linking Science and Resource Management in Mediterranean Ecosystem Parks: Perspectives from the U.S. National Park Service
10:15 – 10:45	<i>Keynote-</i> <b>Richard Cowling</b> - Evolution of diversity in the world’s five Mediterranean-type ecosystems: the role of climatic and topographic dynamics
<b>10:45 – 11:00 COFFEE</b>	
	<b>PLENARY SESSIONS</b>
11:00 - 11:30	<i>Keynote-</i> <b>Pablo Marquet</b> - Climate change and biodiversity in the Mediterranean region of Chile: Bridging the science policy gap
11:30 – 12:00	<i>Keynote-</i> <b>Malcolm Margolin</b> - Other Strands of Knowledge
12:00 – 12:30	<b><i>Tributes and Recognitions</i></b>
<b>12:30 – 2:00 LUNCH</b>	

**TUESDAY, SEPTEMBER 6**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Oaks in Mediterranean Ecosystems – Part I</i></b> Moderator: <i>Victoria Sork</i>	<b><i>Conservation Planning and Evaluation – Part I</i></b> Moderator: <i>Madelyn Glickfeld</i>	<b><i>Coastal Sage Scrub Ecology and Conservation</i></b> Moderator: <i>Fiona Nagle</i>	<b><i>Fire as an Evolutionary Pressure Shaping Plant Traits – Part I</i></b> Moderators: <i>Juli G. Pausas &amp; Dylan Schwilk</i>
2:00 - 2:20	<b>Claudia M. Tyler</b> - Consumer control of oak demography in a Mediterranean-climate savanna	<b>Candice Mostert</b> - CapeNature’s Regional Ecological Support Teams - The interface between management and science in the Cape Floral Region	<b>Jessica D. Pratt</b> - Conservation implications of variation in <i>Artemisia californica</i> traits along an environmental gradient	<b>Juli G. Pausas</b> - Fire shapes plant traits: Introduction & Evidence from the Mediterranean Basin
2:20 – 2:40	<b>Josep Maria Espelta</b> - Acorn predation in Mediterranean oak forests: Influence of species-specific traits and landscape attributes	<b>Jessica Hitt</b> - Climate Adaptation Knowledge Exchange: Developing an Innovative Community of Practice	<b>Erin C. Riordan</b> - Modeling the distribution of a threatened habitat: predicting the future distribution of the California sage scrub under climate change	<b>William Bond</b> - Fire and the angiosperm revolutions – Part I
2:40 – 3:00	<b>James Hayes</b> - A Multi-site Analysis of Valley Oak ( <i>Quercus lobata</i> Née) Regeneration, Stand Structure and Spatial Distribution in the Santa Monica Mountains, California, USA	<b>Inês Duarte</b> - Natura 2000 habitats of Mediterranean countries are distinct	<b>H. Jochen Schenk</b> - Xylem Embolism Repair in California Coastal Sage Scrub and Chaparral Shrubs	<b>William Bond</b> - Fire and the angiosperm revolutions – Part II
3:00 – 3:20	<b>Paul Gugger</b> - Evolutionary history of a California endemic oak, <i>Quercus lobata</i>	<b>Margie Steigerwald</b> – Exploring collaborative large landscape conservation linkages in the Mediterranean ecosystem of Southern California: National Park Service Special Resource Studies	<b>Yuki Hamada</b> - Assessing and Monitoring Conditions of Mediterranean-Type Shrublands Using Remote Sensing: California Sage Scrub Communities	<b>Byron Lamont</b> - Role of fire in evolution of the great Gondwanan family Proteaceae
3:20 – 3:40	<b>Filipe X. Catry</b> - Management of cork oak ecosystems: increasing tree resilience or vulnerability to fire?		<b>Jocelyn R. Holt</b> - No Allee Effects in Lyon’s Pentachaeta, a Federally Listed Endangered Sunflower	<b>Susana Gómez-González</b> - Anthropogenic fires shape seed traits in the Chilean matorral

**3:40 – 4:00 COFFEE BREAK**

**TUESDAY, SEPTEMBER 6**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Oaks in Mediterranean Ecosystems – Part II</i></b> Moderator: <i>Victoria Sork</i>	<b><i>Conservation Planning and Evaluation – Part II</i></b> Moderator: <i>Madelyn Glickfeld</i>	<b><i>Ecological Restoration in Forests and Shrublands</i></b> Moderator: <i>Daniel Moya</i>	<b><i>Fire as an Evolutionary Pressure Shaping Plant Traits – Part II</i></b> Moderators: <i>Juli G. Pausas &amp; Dylan Schwilk</i>
4:00 – 4:20	<b>Thomas Scott</b> - Large-scale changes in the distribution, demography, and biomass of Mediterranean-climate oaks of southern California precede the impact of global climate change	<b>Kemal T. Yilmaz</b> - Short Term Monitoring of Tuz Gölü Lagoon and Adjacent Coastal Habitat Complex for Wetland Management / Mediterranean Coast of Turkey	<b>Efrat Sheffer</b> - Emergence of novel pine-oak Mediterranean ecosystems: results of shrubland regeneration and afforestation	<b>Brandon Pratt</b> - Tradeoffs between seedling recruitment and sprouter persistence shape the evolution of chaparral shrub life history types
4:20 – 4:40	<b>Erin Conlisk</b> - The roles of climate change, land use, dispersal, masting, fire, and predation on the viability of <i>Quercus engelmannii</i> (Engelmann Oak)	<b>Sulejman Sulce</b> - Ecological risk assessment of Butrinti Lagoon ecosystem in Albania	<b>Alexander M. Ruschmann</b> - Innovative techniques to restore plan biodiversity to rehabilitated bauxite mines	<b>Jon Keeley</b> - Evolution of Postfire Seedling Recruitment
4:40 – 5:00	<b>Victoria L. Sork</b> - Landscape genetics of <i>Quercus engelmannii</i> and two sympatric hybridizing shrub oaks	<b>Jamarber Malltezi</b> - Linking Conservation to Ecotourism Management: The Case of Butrint National Park in Albania, a unique UNESCO and Ramsar site	<b>Athanasios Smanis</b> - Plant-plant interactions in the restoration of Mediterranean semi-arid environments	<b>Tom Parker</b> - Dispersal and seed bank shifts in the Arbutioideae (Ericaceae): the potential role of fire
5:00 – 5:20	<b>Rosie Dagit</b> – Conserving oak woodlands in a Mediterranean megalopolis: Los Angeles County develops an economic valuation process for ecosystem services in a planning context		<b>Elise Buisson</b> - Ten Years of Research in a Mediterranean Pseudo-Steppe: Impacts of Land-use changes and Ecological Restoration	<b>Byron Lamont</b> - Fire-stimulated flowering in mediterranean regions – a review
5:20 – 5:40				<b>Open Discussion</b>
<b>Free Evening</b>				

**WEDNESDAY, SEPTEMBER 7**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Fire Management at the Wildland-Urban Interface – Part I</i></b> Moderator: <i>Jon Keeley</i>	<b><i>Ecology of the City</i></b> Moderator: <i>Ellen Mackey</i>	<b><i>Biogeochemical Cycles</i></b> Moderator: <i>Michael Allen</i>	<b><i>Ecophysiology and Environmental Change – Part I</i></b> Moderators: <i>Brandon Pratt and Anna Jacobsen</i>
8:30 – 8:50	<b>Jon Keeley</b> - Wildland-Urban Interface Fire Issues and Options	<b>Stephanie Pincetl</b> - Urban metabolism – a new method for understanding cities	<b>Shayne Jacobs</b> - Invasive trees, microbes and nutrient cycling in fynbos riparian ecotones	<b>Anna Jacobsen</b> - Chaparral seedling ecophysiology of three island endemics from Santa Catalina Island, southern California
8:50 – 9:10	<b>Ross Bradstock</b> - Managing fire risk in temperate forests: insights from the 2009 Victorian (Australia) bushfires	<b>Caroline Mini</b> - Socio-demographic and climate impacts on residential total water use in the City of Los Angeles	<b>Aurora Gaxiola</b> - Nutrient mining strategy; patch activity of a root mat in a Phosphorous-limited woodland	<b>Louis Santiago</b> - Consequences of drought-induced vegetation change for water cycling along a desert-shrubland gradient
9:10 – 9:30	<b>Trent Penman</b> - Holistic analysis of changing risk in response to fire management	<b>Jeff Crooks</b> – Adaptive Management of Mediterranean-Climate Salt Marshes in San Diego, California	<b>Edith B. Allen</b> - Effects of Nitrogen Deposition on Vegetation-Type Conversion in Riversidean Sage Scrub using gradient and long-term fertilization studies	<b>Michael Tobin</b> - Post-fire Photosynthetic Plasticity Differs Between Obligate and Facultative Sprouting Species of Californian Chaparral
9:30 – 9:50	<b>Owen Price</b> - Quantifying prescribed fire effectiveness in theory and in practice	<b>Rosi Dagit</b> – Reconnecting Topanga Creek – Restoring access and habitat for endangered southern steelhead trout ( <i>Oncorhynchus mykiss</i> )	<b>Simon C. Power</b> - Low soil nutrient availability limits legume persistence in the Cape Floristic Region	<b>Michael Vasey</b> - Influence of summer marine fog and low cloud stratus on water relations of evergreen woody shrubs ( <i>Arctostaphylos: Ericaceae</i> ) in the chaparral of central California
9:50 – 10:10	<b>Alexandra D. Syphard</b> - Land use planning to reduce wildfire risk in southern California	<b>Timothy Bonebrake</b> – A century of extirpation in a large urban wildland: the butterflies of Griffith Park, Los Angeles, CA	<b>Michael F. Allen</b> - Allocation of Carbon to Mycorrhizal Fungi in California Mixed-Conifer Forests	<b>Christiane Werner</b> - Different strategies of an exotic invasive species and mediterranean functional types impact ecosystem carbon and water cycling
10:10 – 10:30	<b>CJ Fotheringham</b> - Urban fuels and fire severity	<b>Josh Viers</b> - Biodiversity Conservation in Working Landscapes of the New World Mediterranean: Lessons from the Winelands	<b>Teresa Dias</b> - The integrated response of Mediterranean Shrubland communities to increased nitrogen availability: an overview	<b>Adam West</b> - Divergent drought responses in the fynbos: results from a climate manipulation
<b>10:30 – 11:00 COFFEE BREAK</b>				

## WEDNESDAY, SEPTEMBER 7

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Fire Management at the Wildland-Urban Interface – Part II</i></b> Moderator: <i>Jon Keeley</i>	<b><i>A Landscape-Scale Linkage of Critical Conservation Concern: Science and Strategy in the Tehachapi Region</i></b> Moderator: <i>Sophie Parker</i>	<b><i>Citizen Science and Community Engagement</i></b> Moderator: <i>Susan Teel</i>	<b><i>Ecophysiology and Environmental Change – Part II</i></b> Moderators: <i>Brandon Pratt and Anna Jacobsen</i>
11:00 – 11:20	<b>Noemi Alvarez</b> – The contribution of power line caused fires to community fire risk in the Wild land Urban Interface in San Diego, County	<b>Zachary Principe</b> - Tehachapi Conservation Action Plan: Planning for landscape-scale connectivity and permeability	<b>Susan Teel</b> - Citizen Science Can Be a Tool for Defensible Results?	<b>Christine Scoffoni</b> - Physiological and structural significance of small leaf size in dry areas such as mediterranean ecosystems
11:20 – 11:40	<b>Marti Witter</b> - The velocity of change in fire management in the Santa Monica Mountains National Recreation Area, California – Is it fast enough?	<b>Dick Cameron</b> - Planning for Climate-Adapted Conservation in a Biogeographic Crossroads	<b>Nicholas de Roulhac</b> - Climate Change Ambassadors: Linking Science and Nature to Young Urbanites	<b>William D. Stock</b> - Root responses of phreatophytic Mediterranean Type Ecosystem shrubs to groundwater availability
11:40 – 12:00	<b>Robert Taylor</b> - Fire hazard analysis: modeling the Santa Ana “devil winds,” extreme wildfire behavior, and the geography of disaster in Southern California	<b>Thomas Maloney</b> - Conservation and Development Agreement at Tejon Ranch, CA, USA	<b>Eric Graham and Irina C. Irvine</b> - Using Smart Phone Apps to Merge Citizen Science, Technology and Ecology	<b>Francisco A. Squeo</b> - Is there evidence of a tradeoff between drought and shade tolerance in coastal desert shrubs in north-central Chile?
12:00 – 12:20	<b>Joe Fontaine</b> - Fire behaviour in southwestern Australian shrublands: evaluating the influence of fuel age and fire weather	<b>Michael D. White</b> - Conservation Management Planning at Tejon Ranch, CA, USA	<b>Susan H. Anon</b> - Engaging Citizen Science Volunteers in Stewardship and Management of the Irvine Ranch Natural Landmarks	<b>Michal Shuldman</b> – Taking the heat: Seasonal responses of <i>Heteromeles arbutifolia</i> to extreme heat events
12:20 – 12:40	<b>Jon Keeley and Marti Witter</b> - Fire Science Transfer Model	<b>Jerre Ann Stallcup</b> - Wind, Wings, and Wilderness—decision support for minimizing ecological impacts in the southern Sierra and Tehachapis	<b>Anne Fege</b> - Linking Social Science to Conservation Education for Chaparral Ecosystems	<b>Juan Armesto</b> – Physiological constraints on structure and composition of fog-dependent forest patches in Fray Jorge National Park, semiarid Chile
<b>12:40 – 2:00 LUNCH</b>				

## WEDNESDAY, SEPTEMBER 7

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Restoring and Managing Shrubland Communities – Part I</i></b> Moderator: <i>Megan Lulow and Jutta Burger</i>	<b><i>Wildlife Management at the Wildland-Urban Interface</i></b> Moderator: <i>Kris Preston</i>	<b><i>Topics in Ecosystem Management in the Mexican Med Zone – Part I</i></b> Moderator: <i>Hugh Safford and Carlos Ramirez</i>	<b><i>Global Change and Fire – Part I</i></b> Moderator: <i>Phil van Mantgem</i>
2:00 – 2:20	<b>Sandra A. DeSimone</b> - Non-chemical, research-based coastal sage scrub restoration at an Audubon preserve in Southern California	<b>Jeff Tracey</b> – Animal movement in response to landscape features: A finite mixture modeling approach	<b>Hugh Safford</b> - US-México collaborative efforts in Mediterranean-zone fire and resource management	<b>Scott Mensing</b> - Climate, fire and Native American land-use in the Lower Klamath River Region, California
2:20 – 2:40	<b>Karen Esler</b> – Restoring South African mediterranean-type ecosystems following alien plant invasion	<b>Kathleen Semple Delaney</b> – The effects of habitat fragmentation by urban development on terrestrial herpetofauna in the largest urban national park in the United States	<b>Juan Ramon Cruz Dominguez</b> - From fire suppression to fire management in México’s Mediterranean climate zone	<b>Anthony L. Westerling</b> – Autumn fire risks in coastal southern California conditioned on antecedent climate and Santa Ana wind indices
2:40 – 3:00	<b>Carl R. Gosper</b> - Responses to fire of Mediterranean-climate shrublands in South-western Australia	<b>Catherine M. Schoonmaker</b> – Monitoring and enhancing wildlife movement across a freeway in urban southern California	<b>Gonzalo de Leon-Giron</b> - Fuels and fire management in the Parque Nacional Sierra San Pedro Martír: the difficulties of balancing management politics, stakeholders, and regulations	<b>Daniel Cayan</b> - Intensified drought in California’s future?
3:00 – 3:20	<b>Carl Bell</b> – Simple approaches to restoration of coastal sage scrub habitat in Southern California	<b>Kris Preston</b> – Managing Recovery of Bird Populations Facing Multiple Threats in an Urbanized Landscape	<b>Scott L. Stephens</b> - Jeffrey pine-mixed conifer forests in the Sierra San Pedro Martir: Example of forests with high resiliency	<b>Max Moritz</b> - Fire in the five Mediterranean-type ecosystems of the world over the next century: an evaluation of extreme climate projections
3:20 – 3:40	<b>Richard W. Halsey</b> - When native shrublands collide with ideology: a challenge to preservation and restoration	<b>Barbara Kus</b> – Managing Endangered Birds in an Urban Environment	<b>Cindy Schmidt</b> - A comparative landscape study of forest disturbance patterns in Alta and Baja California	<b>Grant Wardell-Johnson</b> - Fire regimes for refugia in Mediterranean-climate south-western Australia during anthropogenic climate change
<b>3:40 – 4:00 COFFEE BREAK</b>				



**WEDNESDAY, SEPTEMBER 7**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Restoring and Managing Shrubland Communities – Part II</i></b> Moderator: <i>Megan Lulow and Jutta Burger</i>	<b><i>Conserving Mediterranean Island Ecosystems</i></b> Moderator: <i>Carlos de la Rosa</i>	<b><i>Topics in Ecosystem Management in the Mexican Med Zone – Part II</i></b> Moderator: <i>Hugh Safford and Carlos Ramirez</i>	<b><i>Global Change and Fire – Part II</i></b> Moderator: <i>Phil van Mantgem</i>
4:00 – 4:20	<b>Megan Lulow</b> – Efficiencies in the restoration of southern Californian shrubland ecosystems across former rangelands	<b>Carlos L. de la Rosa</b> - Mediterranean Climate Ecosystem Island Conservation in Complex Socioeconomic and Political Settings: Catalina Island, California, USA	<b>Nadia Olivares</b> - The effects of fire on forest ecosystems on Guadalupe Island, México	<b>Dylan Schwilk</b> - A plant distribution shift: temperature, drought or past disturbance?
4:20 – 4:40	<b>Jutta Burger</b> – Pulled from all sides: Weed legacy and herbivore effects on native plant establishment in a disturbed southern Californian grassland	<b>Timothy J. Coonan</b> - Initial Recovery of Endangered Island Foxes on California’s Channel Islands	<b>Isabel Granillo</b> - Protecting the Mediterranean forests of Baja California	<b>Susana Paula</b> - Fuel shapes the fire-climate relationship: evidence from the Mediterranean Basin
4:40 – 5:00	<b>Jay Diffendorfer</b> - If you build it, will they come? How vertebrates respond to changes in Southern California shrubland vegetation	<b>Emily L. Schultz</b> - Quantifying effects of invasive pigs and climate variation on survivorship of an island endemic plant	<b>Saul Alarcon Farfan</b> – Conservation and management policies in the California Floristic Province, México	<b>Walter Oechel</b> – The effects of elevated CO <sub>2</sub> , climate variability, and fire on the functioning of the chaparral of Southern California
5:00 – 5:20	<b>Michael Goulden</b> – Interacting effects of water input, nitrogen deposition, and fire on coastal sage scrub	<b>Kate Roney Faulkner</b> - Ecosystem Engineering: Can we rebuild the cloud forests of Santa Rosa Island (Channel Islands National Park, USA)?	<b>Tom Bell</b> - Vertical and Lateral Carbon Flux in a Subtropical Arid Ecosystem near La Paz, BCS, México	<b>Phillip J. van Mantgem</b> - Can climate change increase fire severity independent of fire intensity in Mediterranean forests?
5:20 – 5:40	<b>Laurel R. Fox</b> - Community interactions webs are changed by deer browse in maritime chaparral shrublands	<b>John R. Clark</b> - Exploring progenitor-derivative species pairs and their role in island speciation: implications for broad-scale conservation in Mediterranean climate island systems		

**GRAND BALLROOM AND TERRACE**

**6:00pm – 9:00pm COVEL RECEPTION - ORGANIC WINERY PRESENTATION, FOOD and POSTER PRESENTATIONS**  
(Poster presenters will be available at their posters after the wine tasting)

**THURSDAY, SEPTEMBER 8**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b>Restoration in Mediterranean-Climate Ecosystems: Linking Science and Management in an Era of Global Change – Part I</b> Moderators: <i>Hugh Safford &amp; Gidi Ne’eman</i>	<b>Fire Ecology of Mediterranean Woodlands and Shrublands – Part I</b> Moderator: <i>Eddie van Etten</i>	<b>Conservation of Species and Genetic Diversity – Part I</b> Moderator: <i>Peggy Fiedler</i>	<b>Natural and Unnatural Forces Shaping Mediterranean Watersheds</b> Moderator: <i>Rafi Mazor</i>
8:30 – 8:50	<b>Hugh Safford</b> - Restoration and global change: can we continue to put our trust in the past?	<b>Carl Gosper</b> - Fire Ecology Studies in the World’s Largest Mediterranean-climate Woodland	<b>Melissa Millar</b> - Genetic diversity and Population Persistence in a Rare Endemic	<b>G. Mathias Kondolf</b> – Mediterranean-climate episodic channels: long-periods of boredom, brief moments of terror
8:50 – 9:10	<b>Gidi Ne’eman</b> - Science-based post-fire management in the eastern Mediterranean: the Mt. Carmel, Israel as a case study	<b>John F. O’Leary</b> - Influence of an intense wildfire on plant diversity and compositional patterns in a riparian forest ecosystem in Southern California, USA	<b>Thomas R. Huggins</b> - The effects of substrate on adjacent shrub communities, and the distribution of the California endemic, <i>Astragalus jaegerianus</i>	<b>Raphael Mazor</b> - Biological and environmental controls in Mediterranean stream communities: How does seasonality affect streams?
9:10 – 9:30	<b>Byron Lamont</b> - Impact of fire on plant-species persistence in natural and post-mine restored shrub communities in mediterranean Australia	<b>Karen E. Marais</b> - Post-fire regeneration of mountain fynbos: A comparison of two sprouting life history types	<b>Felix Forest</b> - Evolutionary history of the hyacinth family (Hyacinthaceae) and its implications for conservation	<b>Derek Booth</b> - Effects of watershed urbanization on Mediterranean-type streams
9:30 – 9:50	<b>Ramon Vallejo</b> - Postfire restoration in Spain	<b>Luis M. Aguilar and Robert S. Taylor</b> - Seventy Years of Vegetation Change in Southern California’s Mediterranean-Climate Shrublands	<b>Carly R. Cowell</b> - Role of Protected Areas: <i>In situ</i> and <i>ex situ</i> conservation in Lowland Fynbos	<b>Scott Cooper</b> - The Effects of Wildfire on Stream Ecosystems in Southern California
9:50 – 10:10	<b>Miguel Valles-Pérez</b> - Restoration Project at Isla Guadalupe, Mexico	<b>Kellie Uyeda</b> - Characterizing vegetation accumulation patterns in a chronosequence of San Diego chaparral vegetation	<b>Har’el Agra</b> - Herbaceous community composition along aridity gradient: role of woody landscape modulators	<b>Martha Sutula</b> – Ecology and Susceptibility of California’s Bar-Built Estuaries to Eutrophication
10:10 – 10:30	<b>Anthony C. Caprio</b> - Fire Science, Fire Management, and Restoring Fire in Sequoia and Kings Canyon National Parks	<b>Tyler H. Coale</b> - Wood rings in rare maritime chaparral shrubs: fire, climate and browsing	<b>Rachel Ben-Shlomo</b> - Mosaic landscape in Israel: Biogeography and Genetic Diversity of Gall Forming Aphids and their Host Plants	<b>Ramon Batalla</b> – The unruly and the dammed: Mediterranean-climate rivers and their regulation
<b>10:30 – 11:00 COFFEE BREAK</b>				

**THURSDAY, SEPTEMBER 8**

	Auditorium	Northridge Room	West Coast Room	South Bay Room
Session:	<b><i>Restoration in Med-Climatic Ecosystems: Linking Science and Management in an Era of Global Change – Part II</i></b> Moderators: <i>Hugh Safford and Gidi Ne'eman</i>	<b><i>Fire Ecology of Mediterranean Woodlands and Shrublands – Part II</i></b> Moderator: <i>John O'Leary</i>	<b><i>Conservation of Species and Genetic Diversity – Part II</i></b> Moderator: <i>Tom Huggins</i>	<b><i>Rivers and Streams in Med Climate Regions: (A)Biotic Influences and Responses</i></b> Moderator: <i>Karen Esler</i>
11:00 – 11:20	<b>Brandon M. Collins</b> - Impacts of fire exclusion and recent managed fire on forest structure in old growth Sierra Nevada mixed-conifer forests	<b>Sandra Saura-Mas</b> - Species traits in post-fire regeneration in the Western Mediterranean basin: the role of climate and fire	<b>Janet G. Sanchez</b> - Resurvey of the Mosses of the San Dimas Experimental Forest: Are Changes in Climate and Pollution Reflected in Shifts in Species Composition and Elevation Distribution?	<b>Karen Esler</b> - Riparian vegetation structure and function in Mediterranean type ecosystems: A review
11:20 – 11:40	<b>Eric Winford</b> - The multiple benefits of forest restoration: a case study at Independence Lake in the Sierra Nevada, CA	<b>Chris R. Mallek</b> - Fire history, serotiny, and seed dispersal cuing in a rare California cypress	<b>Lena M. Ayala-Coleman</b> - Bryophytes from the mediterranean climate to the high country in California	<b>Shayne Jacobs</b> - An overview of the impacts of disturbances on structure and functioning of fynbos riparian zones
11:40 – 12:00	<b>Malcolm North</b> - Restoration of frequent fire forests in California: Scaling up from the stand to the landscape	<b>Christopher M. Moore</b> - A seed dispersal mutualism facilitated by fire in the California Floristic Province	<b>Ben Miller</b> - Historic impacts, management objectives and optimal fire regimes for plant species diversity in Kings Park, an urban woodland reserve in SW Australia	<b>Cheryl Swift</b> - How evergreen are riparian species in the Western Cape of South Africa?: A comparison of leaf traits across a moisture gradient
12:00 – 12:20	<b>Christy Brigham</b> - Restoration Ecology in an Urbanizing Landscape: Challenges and Opportunities	<b>Eddie J.B. van Etten</b> - Fire Regimes and Ecology in Transitional Woodlands and Shrublands of Semi-arid, Mediterranean South-West Australia	<b>Peggy L. Fiedler</b> - Broadening Our Embrace: An Ecological and Evolutionary Tango in the Service of Mediterranean-Type Biodiversity Conservation	<b>Minette Naudé</b> - Fynbos riparian biogeochemistry and invasive alien Acacia
12:20 – 12:40	<b>Amy Merrill</b> - Can restoring mountain meadows ameliorate the effects of climate change in a Mediterranean landscape?	<b>Rita M. Quinones-Magalhaes</b> - Leaf traits and litter flammability: understanding multi-species mixtures		<b>Buisson, Elise</b> - Mediterranean Riparian Vegetation: Improving Studies, Management and Restoration (case studies in south-eastern France)
<b>12:40 – 3:00 LUNCH and FREE TIME</b>				
<b>3:00 – Board Buses for SMM Field Trip – Paramount Ranch (3:30 – 9:30)</b>				

**FRIDAY, SEPTEMBER 9**

	Auditorium	Northridge Room	South Bay Room
Session:	<b><i>Invasive Species</i></b> Moderator: <i>Christy Brigham</i>	<b><i>Fire Management</i></b> Moderator: <i>CJ Fotheringham</i>	<b><i>Mediterranean Forest and Woodland Ecology, Conservation and Management</i></b> Moderator: <i>Ramon Vallejo</i>
8:30 – 8:50	<b>Margarita Arianoutsou</b> - Comparative patterns of alien plant invasions in Mediterranean climate regions of the World	<b>Marcia Narog</b> - Flames, Fuels, Foliage, and FireMapper	<b>Daniel Moya</b> - Early management of <i>Quercus ilex</i> and <i>Pinus halepensis</i> Mediterranean stands naturally regenerated after fire
8:50 – 9:10	<b>Susana Gomez-Gonzalez</b> - Soil disturbance by a native rodent and release of exotic herbivores allow niche expansion of an alien plant in the Chilean coastal matorral	<b>Sean Anderson</b> - Resilience of an urban coastal sage scrub remnant to wildfire fuel modification	<b>Marjan Jongen</b> - The impact of changes in the timing of precipitation on the herbaceous understory of Mediterranean evergreen oak woodlands
9:10 – 9:30	<b>Nicole Molinari</b> - The effect of rainfall and nitrogen on non-native grass establishment and biodiversity	<b>Janice Coen</b> - Coupled Weather-Fire Modeling and Remote Sensing of Wildland Fires and Fuels	<b>Vanda Acácio</b> - Pathways for resilience in Mediterranean cork oak land-use systems in Portugal
9:30 – 9:50	<b>Jolene Moroney</b> - Density and dispersion of an invasive thistle in its native Mediterranean range compared to two invasive ranges in California and central Chile	<b>B. L. Estes</b> - Evaluating the Role of Landscape Attributes and Burn History on Spatial Patterns of Fire Severity in the Klamath Mountains, Northern California, USA: Considerations for Planning Restoration after the Smoke Clears	<b>Alexandria Pivovarovff</b> – Best of two worlds: Gas exchange and hydraulics of shade and drought tolerant species <i>Ruscus aculeatus</i> and <i>R. microglossum</i>
9:50 – 10:10	<b>Gretchen C. Coffman</b> - The <i>Arundo</i> Invasion: Control Strategies Based on Ecological Research in California and South Africa	<b>Daniel Moya</b> - Decision support tools for forest management in recreation and fire-prone areas in Southern California	<b>Christiane Werner</b> - Understory species play a dominant role determining changes in ecosystem carbon source/sink strength in a cork-oak woodland ( <i>montado</i> )
10:10 – 10:30			<b>Christiane Werner</b> - Dynamics of understory plant composition and diversity in Mediterranean cork oak forests in correlation to small scale microclimatic changes
<b>10:30 – 11:00 COFFEE BREAK</b>			

**FRIDAY, SEPTEMBER 9**

	Auditorium
	<b>PLENARY SESSIONS</b>
10:50 – 11:00	<b>Phil Rundel</b> – Session Opening
11:00 – 11:20	<b>Peggy Fiedler</b> - Mediterranean Reserve Managers International Cooperative <b>Chen Yin Noah</b> – Mediterranean-Type Ecosystem Thematic Group within the International Union for Conservation of Nature (IUCN)
11:20 – 12:00	<b>Panel Session: Managing Invasive Species</b> <i>Although there are many well documented examples of invasive alien species influencing native species, the critical ways in which alien species impact ecosystem services are still emerging. At the same time there has appeared a controversial minority view among some scientists that conservationists devote too much effort and resources to aliens. Should we judge species by their nativeness?</i> ❖ Christy Brigham (moderator) ❖ Margarita Arianoutsou ❖ Phil Rundel ❖ Edie Allen
12:00 – 1:00	<b>Panel Session: California: A Case Study for Conservation Management</b> <i>What are the research priorities that can help guide management of protected areas in California during a 21st Century that promises extraordinary ecological change and severely constrained budgets?</i> ❖ Jay Chamberlin (moderator), California State Parks ❖ Michael O’Connell, Irvine Ranch Conservancy ❖ Sophie Parker, The Nature Conservancy ❖ Woody Smeck, US National Park Service ❖ Joe Edmiston, Mountains Recreation and Conservation Authority
<b>1:00 – 2:00 LUNCH</b>	
	Auditorium
	<b>PLENARY SESSIONS</b>
2:00 – 3:00	<b>Panel Session: Conservation of Mediterranean-Type Ecosystems – Opportunities for Global Lessons Learned</b> <i>What role does science play in resolving Mediterranean-type ecosystem conservation challenges? What can be learned from these experiences across the five global regions? Are there new tools, research, and collaborative opportunities that can more effectively link science to resource management?</i> ❖ Ray Sauvajot (moderator), United States ❖ Richard Cowling, South Africa ❖ Gidi Ne’eman, Israel ❖ Juan Armesto, Chile ❖ Carl Gosper, Australia
3:00 – 3:10	<b>Elise Buisson</b> – Proposal by <i>Ecologia Mediterranea</i> to be an "official" journal for Mediterranean Ecology
3:10 – 3:30	<b>Phil Rundel and Felicia Federico</b> - Announcement of MEDECOS XIII and meeting conclusions
<b>CONFERENCE ENDS</b>	

## POSTERS

	Author	Title
1	<b>Edith B. Allen</b>	Determining the Mediterranean origins of invasive red brome in California: a preliminary assessment to understanding plant-soil feedbacks
2	<b>Carl Bell</b>	Control of invasive annual grasses with herbicides aids restoration of purple needlegrass ( <i>Nasella pulchra</i> )
3	<b>Peter Bradshaw</b>	Phytogeographical Centres of Endemism in the Cape Floristic Region: location, endemism richness and levels of protection
4	<b>Marcela A. Bustamante-Sánchez</b>	Status and trends of compensation programs required by the Environmental Impact Assessment (EIA) law in the Chilean Mediterranean Region
5	<b>Filipe X. Catry</b>	Predicting post-fire tree mortality and regeneration to help management decisions
6	<b>Roky Coria</b>	Latitudinal Gradients in Leaf Traits of a California Endemic Oak, <i>Quercus lobata</i>
7	<b>Liam Crook</b>	Relationships among a soil fungus, grass biochar and a South Australian native grass
8	<b>Linda C. Dye</b>	Estimating the population size of island loggerhead shrikes on Santa Rosa and Santa Cruz Islands, USA
9	<b>Nate C. Emery</b>	How does Fog Affect the Fire Regime?
10	<b>Kate Roney Faulkner</b>	Forward to the Past; Removal of non-native animals from Channel Islands National Park, U.S.A.
11	<b>Erin J. Hanan</b>	Spatiotemporal links between fire, soil moisture and resource redistribution in the chaparral
12	<b>Shayne Jacobs</b>	Vulnerability of selected native and invasive woody riparian species in the Fynbos Biome to cavitation
13	<b>Shayne Jacobs</b>	Landscape Legacies: Biogeochemical and ecohydrological properties of natural and cultivated 'heuweltjies' (mima-like mounds) of the fynbos and succulent karoo in South Africa
14	<b>Shayne Jacobs</b>	Microbial diversity in riparian zones invaded and cleared of woody alien invasive plants in South Africa
15	<b>Heather Keldgord</b>	The Distribution of Sexes Across a Rainfall Gradient in a Subdioecious Southern California Chaparral Shrub <i>Rhus ovata</i> S. Watson (Anacardiaceae)
16	<b>Andy Lentz</b>	Individual and annual variation in flowering and leaf phenology of savanna population of valley oak, <i>Quercus lobata</i> Née
17	<b>Shannon Lucas</b>	Responses of Medium and Large Mammals to Increased Recreation and Other Activities over an Eight Year Period in the Puente Hills Preserve
18	<b>Thomas W. McGinnis</b>	Fire, climate and management interactions in the United States
19	<b>Melissa Millar</b>	The complex issue of the <i>Acacia saligna</i> species complex
20	<b>T.L. Morris</b>	The role of ecophysiology in the invasion success of <i>Acacia cyclops</i> in a Mediterranean-climate ecosystem
21	<b>Chen Yin Noah and Peggy L. Fiedler</b>	University of California Natural Reserve System – Leading Mediterranean-Type Ecosystem Stewardship Collaboration for the 21 <sup>st</sup> Century
22	<b>Luisa Ferreira Nunes</b>	Analog Forests, the sustainable cork oak ecosystems in Portugal

## POSTERS (Continued)

	Author	Title
23	<b>Diane Rachels</b>	Comparison of Chaparral Re-growth between Wind- and Fuel-driven Fire Areas
24	<b>Sarah E. Ratay</b>	Mule deer impacts to an island ecosystem and post-fire regeneration on Santa Catalina Island, California, USA
25	<b>M. Karl Reinecke</b>	Patterns of zonation in riparian scrub
26	<b>Erin C. Riordan</b>	Threats of climate change and land use on two vulnerable trees species native to Southern California
27	<b>Robert Savé</b>	Mediterranean grasses invasiveness in California could be related to some morphological and reproductive traits after survival by drought their resistance patterns
28	<b>Brooke Scruggs and Allison Tashnek</b>	Wildlife Use of the Los Piñetos Underpass in Santa Clarita, California
29	<b>Rasoul Sharifi</b>	Physiological Response of an invasive Species of the Coastal Sage Scrub, <i>Centaurea melitensis</i> , to Different Soil Nitrogen Supply
30	<b>Carrie E. Smith</b>	Morphological evidence of hybridization between a southern California tree species, <i>Quercus engelmannii</i> , with two sympatric scrub oak species
31	<b>Cheryl Swift</b>	A Comparison of Post Fire Recovery in Riparian Habitats in Fynbos and Chaparral
32	<b>K.T. Tsitsoni</b>	Root growth potential and seedling morphological attributes of four Mediterranean hardwood species
33	<b>Sula Vanderplank</b>	Factors Affecting Plant Distribution where the Chaparral meets the Desert
34	<b>Lauren Velasco</b>	The effects of climatic variables on plant leaf traits and community cover in an arid ecosystem
35	<b>Iraima Verkaik</b>	Midterm effects of a wildfire in a Mediterranean creek: fire vs. seasonal drought
36	<b>Christiane Werner</b>	Analyzing the trophobiotic relationship between ants and aphids in a Mediterranean citrus-grove using stable 13C und 15N isotopes
37	<b>Christiane Werner</b>	Impact of understory and tree vegetation on infiltration and redistribution of rain water in soil of a Mediterranean cork-oak forest ( <i>montado</i> )
38	<b>Christiane Werner</b>	Application of high resolution hyperspectral and LiDAR remote sensing to analyze the invasion of an exotic <i>Acacia</i> tree in Portuguese dune ecosystems
39	<b>Christiane Werner</b>	Invasion of an exotic <i>Acacia</i> impacts nitrogen budgets of native species and adversely affects biodiversity in protected Mediterranean dune habitats
40	<b>Christiane Werner</b>	Dynamics of understory plant composition and diversity in Mediterranean cork oak forests in correlation to small scale microclimatic changes
41	<b>Christiane Werner</b>	Water and carbon cycling in a Mediterranean pine forest are substantially altered after invasion by an exotic <i>Acacia</i>
42	<b>Christiane Werner</b>	The influence of environmental factors on carbon allocation in the Mediterranean shrub <i>Halimium halimifolium</i> L.
43	<b>Kate Willis</b>	Modeling Locally Endangered Plant Species in the Santa Monica Mountains
44	<b>Marti Witter</b>	The California Fire Science Consortium – a new tool for collaboration between fire scientists and fire managers