

3rd MOJAVE DESERT SCIENCE SYMPOSIUM AGENDA

Tuesday, November 16

Keynote Session

8:00 AM On-Site Registration & Poster Set-up

9:00 AM Welcome
Nancy Carrick *University of Redlands, California*

Introductions

James M. André *University of California, Sweeney Granite Mountains Desert Research Center*

9:10 AM Keynote: The Mojave Desert: Land of Power and Passions, Land of Vulnerability
Charles F. Wilkinson *University of Colorado, Boulder*

9:50 AM Keynote: Global Change: How May the Mojave Desert Respond?
Stanley D. Smith *University of Nevada, Las Vegas*

10:30 AM BREAK

10:45 AM Keynote: Management and Science in the Mojave Desert
Michael Pool *Bureau of Land Management, California State Office*

11:05 AM Steven P. Thompson *US Fish and Wildlife Service, Regional Office*

AM Jill S. Heaton *University of Nevada, Reno*

11:25

11:45 AM Discussion and Announcements

Noon LUNCH

Theme 1: Threats to the Mojave Desert: Past, Present and Future

1:00 PM Introduction
Jill S. Heaton *University of Nevada, Reno*

1:10 PM Keynote: Threats to the Mojave Desert: Past, Present and Future
Robert H. Webb *US Geological Survey*

1:40 PM Impacts of Atmospheric Nitrogen Deposition on Mojave Desert Vegetation and Soils
Edith B. Allen *University of California, Riverside*

2:00 PM Invasive Plants of the Mojave Desert: Current Status and Management Issues
Matthew L. Brooks *US Geological Survey*

2:20 PM BREAK

2:40 PM Fragmenting a Desert Landscape: Creating a Cascade toward Extinction?
Cameron Barrows *Center for Natural Lands Management*

3:00 PM Scientific Assessment of Threats to the Persistence of the Mojave Desert Tortoise
C. Richard Tracy *University of Nevada, Reno*

3:20 PM Regional Ground-Water Flow System, Nevada and California—Hydrologic Framework and Transient Ground-Water Flow Model
Claudia C. Faunt *US Geological Survey*

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3:40 **Summary and Discussion**
PM David M. Miller *US Geological Survey*

4:00 **POSTER SESSION: THEME 1**
PM

6:00 **Social: Hilton, San Bernardino**
PM

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Theme 2: Ecosystem Monitoring: Linking Ecosystem Attributes to Ecological Processes

8:30 AM POSTER SESSION: THEME 2

10:00 Introduction

AM Eric V. McDonald *Desert Research Institute*

10:10 Keynote: Prospects for a Broader Understanding of Ecosystem Function

AM J. Mark Porter *Rancho Santa Ana Botanic Garden*

10:40 Biological Soil Crusts as Indicators of Ecosystem Health in the Mojave Desert

AM Jeffrey R. Johansen *John Carroll University*

11:00 Long-Term Studies: Relating Past Efforts to Future Management Needs

AM Lesley A. DeFalco *US Geological Survey*

11:20 BREAK

AM

11:40 Linking Soils, Hydrology and Vegetation Dynamics

AM Erik P. Hamerlynck *Rutgers University*

12:00 Fatal Attraction: Blister Beetle Larvae Cooperate to Practice Mass Deception in the Mojave Desert

Leslie L. Saul-Gershenz *Center for Ecosystem Survival*

12:20 Summary and Discussion

PM James M. André *University of California, Sweeney Granite Mountains Desert Research Center*

12:40 LUNCH

PM

Theme 3: Natural Recovery or Active Restoration?

2:00 PM Introduction

Lesley A. DeFalco *US Geological Survey*

2:10 PM Keynote: Leaving it Alone: How Do We Determine When and Where Natural Restoration Will Work?

Jayne Belnap *US Geological Survey*

2:40 PM Integration of Soil, Landscape Position, and Hydrology to Evaluate Active Restoration Strategy

Eric V. MacDonald *Desert Research Institute*

3:00 PM Active Restoration of Disturbances in the Mojave Desert

W. Kent Ostler *Bechtel Nevada*

3:20 PM BREAK

3:40 PM The Anatomy, Physiology, Psychology and Economics of Desert Destruction and Restoration

David A. Bainbridge *Alliant International University*

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- 4:00 PM From Ants to Elk: The Problems and Opportunities in Arid Land Restoration Due to Granivores and Herbivores**
Todd C. Esque *US Geological Survey*
- 4:20 PM Summary and Discussion**
Robert H. Webb *US Geological Survey*
- 4:40 PM POSTER SESSION: THEME 3**
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Thursday, November 18 Theme 4: Scales and Sustainability

- 8:30 AM POSTER SESSION: THEME 4**
- 10:00 AM Introduction**
Lynn F. Fenstermaker *Desert Research Institute*
- 10:10 AM Keynote: Sustainability: Assumption, Hypothesis, Oxymoron?**
James H. Brown *University of New Mexico*
- 10:40 AM An Approach for Determining Regional Land Cover and Vertebrate Species Habitat Distributions in the American Southwest: The Southwest Regional Gap Analysis Project**
David F. Bradford *Environmental Protection Agency*
- 11:00 AM Ecological Effects of Climate Driven Processes Through Time**
Kelly Redmond *Desert Research Institute*
- 11:20 AM BREAK**
- 11:40 AM Using Molecular Approaches to Identify Biodiversity Attributes in the North American Aridlands**
Brett Riddle *University of Nevada, Las Vegas*
- 12:00 PM Ecological Impacts—Certainty Within An Uncertain Future**
Mary Cablk *Desert Research Institute*
- 12:20 PM Summary and Discussion**
Debra L. Hughson *National Park Service, Mojave National Preserve*
- 12:40 PM LUNCH**
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Symposium Summary

2:00 PM **Moderator**
Allan Muth *University of California, Boyd Deep Canyon Desert Research Center*

Panelists Include:

Debra L. Hughson *National Park Service, Mojave National Preserve*
Jayne Belnap *US Geological Survey*
Daniel Patterson *Center for Biological Diversity*
James F. Weigand *Bureau of Land Management-California State Office*
Philip A. Medica *US Geological Survey*

4:30 PM **Closing Comments**

Friday, November 19

8:00 AM **Field Trip** *Departs from the Hilton, San Bernardino*
