

Draft Jan. 26, 2012

## Draft Final Program

# 25<sup>th</sup> VERTEBRATE PEST CONFERENCE

March 5 - 8, 2012  
The Portola Hotel & Spa at Monterey Bay  
Monterey, California, USA

*Celebrating the 50<sup>th</sup> Anniversary of the  
Vertebrate Pest Conference, 1962 - 2012*



### Conference At-A-Glance

**Monday, March 5** (Optional) Field Trip, 8 AM - 5 PM  
*Buses depart from Portola Hotel at 8:00 AM*

**Tuesday, March 6**

#### Plenary Session

*DeAnza I & II*

8:30 AM – 12 Noon

Lunch (*on your own*)

Exhibits / Posters open – *Portola Room* – 1:15

*Conc. Session 1A:*

**Nontoxic Control  
Methods**

*DeAnza I*

1:15 – 5:00 PM

*Symposium 1B:*

**Wildlife and Food  
Safety**

*DeAnza II*

1:15 – 5:00 PM

7:00 PM: 50<sup>th</sup> Anniversary Banquet (optional)  
*Montrio Bistro, 414 Calle Principal, Monterey*

**Wednesday, March 7**

*Conc. Session 2A:*  
**Vertebrate Pest  
Control Training &  
Education**

*DeAnza I*

8:15 AM – 12:00 PM

*Symposium 2B:*  
**Urban Wildlife  
Management**

*DeAnza II*

8:15 AM – 12:00 PM

Lunch (*on your own*)

*Conc. Session 3A:*  
**Vertebrate  
Pesticides**

*DeAnza I*

1:15 – 5:00 PM

*Conc. Session 3B:*  
**Introduced /  
Invasive Pests**

*DeAnza II*

1:15 – 5:00 PM

6:00 PM: Poster Session and Vendors' Forum  
Hors d'oeuvres and cash bar – *Portola Room*

**Thursday, March 8**

*Conc. Session 4A:*  
**Wildlife Disease /  
Rodent Control**

*DeAnza I*

8:15 AM – 12:00 PM

*Conc. Session 4B:*

**Feral Cats**

*DeAnza II*

8:15 AM – 12:00 PM

Exhibits / Posters conclude  
Lunch (*on your own*)

*Conc. Session 5A:*  
**Bird Management /  
Other Topics /  
Closing Remarks**

*DeAnza I*

1:15 – 4:35 PM

*Conc. Session 5B:*  
**Economics / Other  
Topics / Closing  
Remarks**

*DeAnza II*

1:15 – 4:35 PM

## Tuesday, March 6

### *Plenary Session*

*DeAnza I & II*

#### **Keynote Speaker:**

#### **Dr. Terrell P. Salmon**

Terry Salmon recently retired from the University of California after 33 years as a Cooperative Extension Wildlife Specialist. Dr. Salmon specialized in understanding and solving wildlife problems that impact agriculture, humans, and the environment. He particularly focused on California ground squirrels and how to manage them effectively while minimizing impacts on other wildlife and the environment.

Terry began his involvement with the VPC while he was a graduate student at the University of California, Davis and has played a major role in the Vertebrate Pest Council to this day. His involvement with the VPC, close connections with Vertebrate Pest professionals throughout the world, and research and extension work throughout California give him a unique perspective on the progress in the vertebrate pest control field during the past 50 years.

8:30 am **Welcome**

*Eric Lauritzen*, Monterey County Agricultural Commissioner

8:45 **Opening Remarks and 50<sup>th</sup> Anniversary Recognition**

*Robert M. Timm*, Conference Chair, University of California – ANR

9:15 **Keynote Address – VPC: 50 Years of Progress?**

*Terrell P. Salmon*, Wildlife Specialist *Emeritus*, University of California Cooperative Extension

10:00 *Break*

10:20 **Abating Wild Pig Damage Using Trapping Best Management Practices**

*Billy Higginbotham*, Texas AgriLife Extension Service, Overton, TX

10:45 **Using Bird Strike Information to Direct Effective Management Actions within Airport Environments**

*Todd J. Pitlik\**, USDA/APHIS, Wildlife Services, Long Beach, CA

11:10 **Regulated Commercial Harvest to Manage Overabundant White-Tailed Deer: An Idea to Consider?**

*Scott Hygnstrom\**, School of Natural Resources, University of Nebraska, Lincoln, NE

11:35 **The Global Future of Vertebrate Pest Management**

*Steven Lapidge*, Invasive Animals Cooperative Research Centre, Unley, Australia

12:00 *Lunch (on your own)*

*\*Multiple authored paper, see abstract for a complete list of authors*

## Tuesday, March 6

### Concurrent Session 1A: *Nontoxic Control Methods*

DeAnza I

- 1:15 pm                      **Session Chair: Robert H. Schmidt**  
Department of Environment and Society  
Utah State University, Logan, UT
- 1:20    **An Assessment of Richardson Ground Squirrel Activity and Potential Barriers to Limit Access to Sensitive Sites at Malmstrom Air Force Base, Montana**  
*Gary Witmer\**, USDA/APHIS, Wildlife Services, National Wildlife Research Center, Fort Collins, CO
- 1:45    **Raptor Perches as Vertebrate Pest Control**  
*Beth Slate*, Contra Costa County Department of Agriculture, Concord, CA
- 2:10    **Evaluating Bird Repellents**  
*Leonard R. Askham*, Bird Shield Repellent Corporation, Pullman, WA
- 2:35    **The Effect of Experimental Removal of Single Breeding Pairs of Resident Canada Geese on Small Ponds Historically Harboring a Single Breeding Pair in Southeastern Pennsylvania**  
*Ryan P. Lynch\**, USDA/APHIS, Wildlife Services, New Britain, PA
- 3:00    *Break*
- 3:20    **Efficacy of Electronet Fencing for Excluding Coyotes: A Case Study for Protection of Black-Footed Ferrets in Montana**  
*Stewart Breck\**, USDA/APHIS, Wildlife Services, National Wildlife Research Center, Fort Collins, CO
- 3:45    **The Use of an Electronic Control Device in Wildlife Management – A Case Series**  
*Larry L. Lewis\**, Alaska Department of Fish and Game, Soldotna, AK
- 4:10    **Operational Evolution in Pest Eradication through Use of Self-Resetting Traps**  
*Stuart Barr\**, Goodnature Limited, Wellington, New Zealand
- 4:35    **Evaluation of Castor Oil as Repellent/Antifeedant against the Indian Gerbil *Tatera indica* and House Rat *Rattus rattus***  
*B. K. Babbar\**, Department of Zoology, Punjab Agricultural University, Punjab, India

\*Multiple authored paper, see abstract for a complete list of authors

If you registered for the 50<sup>th</sup> Anniversary Banquet, join us tonight at 7:00 pm at the Montrio Bistro, 414 Calle Principal, Monterey.

## Tuesday, March 6

### Special Symposium 1B: *Wildlife and Food Safety*

DeAnza II

- 1:15 pm                      **Session Chair: Edward R. Atwill**  
Western Institute for Food Safety and Security  
University of California, Davis, CA
- 1:20    **Wildlife Sources in Foodborne Disease Outbreak Investigations in Oregon**  
*William Keene\**, Oregon Department of Public Health, Portland, OR
- 1:45    **Food Safety and Rodent Control in Leafy Green Crops**  
*Peter D. Newman\**, UC Coop. Extension, San Diego Co., San Diego, CA
- 2:10    **Methodological and Epidemiological Concerns When Comparing Microbial Food Safety Risks from Wildlife, Livestock, and Domestic Animals**  
*Edward R. Atwill\**, Western Institute for Food Safety and Security, University of California, Davis, CA
- 2:35    **Zoonotic Risks from Amphibians and Reptiles**  
*Michele Jay-Russell\**, Western Center for Food Safety, University of California, Davis, CA
- 3:00    *Break*
- 3:20    ***Trichinella* in California Bear and Feral Pig Populations**  
*Jamie Sherman\**, School of Veterinary Medicine, University of California, Davis, CA
- 3:45    **Deer Mouse (*Peromyscus maniculatus*) as a Vector of Foodborne Protozoa Adjacent to Produce Production Fields**  
*Xunde Li\**, Department of Population Health and Reproduction, University of California, Davis, CA
- 4:10    **Addressing Wildlife Risks in Produce Production in the Central California Coast: A Grower's Perspective**  
*Bob Martin*, Rio Farms, King City, CA
- 4:35    **Discussion on Food Safety Risks Associated with Wildlife**  
*Panel Group:* Edward R. Atwill, Michele Jay-Russell, William Keene, Xunde Li, Bob Martin, Peter D. Newman, and Jamie Sherman

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## Wednesday, March 7

### Concurrent Session 2A: Vertebrate Pest Control Training and Education

DeAnza I

- 8:15 am                    **Session Chair: Kathleen A. Fagerstone**  
USDA/APHIS/WS/National Wildlife Research Center  
Fort Collins, CO
- 8:20    **Strategic Vertebrate Pest Management Training**  
*Tony Buckmaster\**, Institute for Applied Ecology and Invasive Animals  
Cooperative Research Centre, University of Canberra, Canberra, Australia
- 8:45    **The Balanced Scientist Program - Training PhD Candidates Beyond Research**  
*Stephen Sarre\**, Institute for Applied Ecology and Invasive Animals  
Cooperative Research Centre, University of Canberra, Canberra, Australia
- 9:10    **Principles Underpinning Best Practice Management of the Damage Due to Pests**  
*Mike Braysher\**, Institute for Applied Ecology, University of Canberra,  
Canberra, Australia
- 9:35    **Pestsmart: An Information Toolkit for Practical Pest Animal Control**  
*Steven Lapidge\**, Invasive Animals Cooperative Research Centre, Unley,  
Australia
- 10:00    *Break*
- 10:20    **USDA-APHIS Wildlife Services 2011 Research Needs Assessment**  
*Mark E. Tobin\**, USDA/APHIS, Wildlife Services, National Wildlife Research  
Center, Fort Collins, CO
- 10:45    **Changes in Wildlife Damage Management in Alabama: 1990 to 2010**  
*James B. Armstrong*, Forestry, Wildlife, and Natural Resources Extension,  
Auburn University, Auburn, AL
- 11:10    **Tactical to Practical: The Human Component of Human-Wildlife Conflict Resolution**  
*George R. Gallagher\**, Department of Animal Science, Berry College, Mount  
Berry, GA
- 11:35    **Outreach Education and Training Vertebrate Pest Control**  
*Peter D. Newman\**, UC Coop. Extension, San Diego Co., San Diego, CA
- 12:00    *Lunch (on your own)*

\*Multiple authored paper, see abstract for a complete list of authors

## Wednesday, March 7

### Special Symposium 2B: Urban Wildlife Management

DeAnza II

- 8:15 am                    **Session Chair: Dennis L. Orthmeyer**  
USDA/APHIS/Wildlife Services, Sacramento, CA
- 8:20    **Activity Patterns of the Coyote (*Canis latrans*) Along an Urban-Rural Gradient**  
*Holly Jantz\**, School of Forestry and Wildlife Sciences, Auburn University,  
Auburn, AL
- 8:45    **Challenges to Managing and Conserving Endangered San Joaquin Kit Foxes in Urban Environments**  
*Brian Cypher\**, Endangered Species Recovery Program, California State  
University, Stanislaus, CA
- 9:10    **Exposure of Wildlife to Anticoagulant Rodenticides at Santa Monica Mountains National Recreation Area: From Mountain Lions to Rodents**  
*Seth P. D. Riley\**, National Park Service, Thousand Oaks, CA
- 9:35    **Activity Areas and Roosting Sites of European Starlings Wintering in Central New Jersey**  
*H. Jeffrey Homan\**, USDA/APHIS, Wildlife Services, National Wildlife  
Research Center, Bismarck, ND
- 10:00    *Break*
- 10:20    **Are Turf-Type Tall Fescue Cultivars Useful for Reducing Wildlife Hazards in Airport Environments?**  
*Brian E. Washburn*, USDA/APHIS, Wildlife Services, National Wildlife Research  
Center, Sandusky, OH
- 10:45    **White-Tailed Deer Damage Management in a Forested High-Density Residential Community**  
*Gino J. D'Angelo\**, USDA/APHIS, Wildlife Services, New Britain, PA
- 11:10    **Deer, Humans, and Vegetation: A Case Study of Deer Management in the Chicago Metropolitan Area**  
*Rachel E. Urbanek\**, Cooperative Wildlife Research Lab, Southern Illinois  
University, Carbondale, IL
- 11:35    **Eagle-Aircraft Collisions: An Increasing Problem in the Airport Environment**  
*Brian E. Washburn\**, USDA/APHIS, Wildlife Services, National Wildlife  
Research Center, Sandusky, OH
- 12:00    *Lunch (on your own)*

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## Wednesday, March 7

### Concurrent Session 3A: *Vertebrate Pesticides*

*DeAnza I*

- 1:15 pm                      **Session Chair: Terrell P. Salmon**  
Wildlife Specialist *Emeritus*  
University of California Cooperative Extension, San Diego, CA
- 1:20    **Retrieving Older and Advancing Novel Rodenticides - for Integration with Anticoagulants**  
*Charles Eason\**, Lincoln University, Canterbury, New Zealand
- 1:45    **NWRC Chemical Effects Database – What’s Old is New Again**  
*Jeanette R. O’Hare\**, USDA/APHIS, Wildlife Services, National Wildlife Research Center, Fort Collins, CO
- 2:10    **Recent Advances of Rodent Bait Development in New Zealand**  
*James G. Ross\**, Department of Ecology, Lincoln University, Canterbury, New Zealand
- 2:35    **Innovative Developments for Long-Term Vertebrate Pest Control**  
*Helen Blackie\**, Department of Ecology, Lincoln University, Canterbury, New Zealand
- 3:00    *Break*
- 3:20    **Protecting Nontarget Wildlife from Effects of Vertebrate Pesticides**  
*Stella McMillin*, California Department of Fish and Game, Rancho Cordova, CA
- 3:45    **Toxicity and Potential Risk of the First Generation Anticoagulant Rodenticide Diphacinone in Raptors**  
*Barnett A. Rattner\**, USGS Patuxent Wildlife Research Center, Beltsville, MD
- 4:10    **The Importance of Aluminum Phosphide for Burrowing Pest Control in California**  
*Roger A. Baldwin*, Statewide IPM Program, UC Coop. Extension, Parlier, CA
- 4:35    **Evaluation of a Pressurized Exhaust Device to Control Pocket Gophers and Belding’s Ground Squirrels in Alfalfa**  
*Steve Orloff*, UC Coop. Extension, Siskiyou Co., Yreka, CA

*\*Multiple authored paper, see abstract for a complete list of authors*

*Join us tonight at 6:00 pm in the De Anza Foyer and Portola Room for poster viewing, vendor’s forum, hors d’oeuvres, and no-host bar.*

## Wednesday, March 7

### Concurrent Session 3B: *Introduced / Invasive Pests*

*DeAnza II*

- 1:15 pm                      **Session Chair: Mark E. Tobin**  
USDA/APHIS/WS/National Wildlife Research Center  
Fort Collins, CO
- 1:20    **Rangitoto and Motutapu – A Potential Model for Future Eradications on Large, Inhabited Islands with Suites of Invasive Pest Species Present**  
*Richard Griffiths\**, Island Conservation, Santa Cruz, CA
- 1:45    **Turning Back the Tide of American Mink Invasion at Unprecedented Scales in Partnership with Communities**  
*Xavier Lambin\**, School of Biological Sciences, University of Aberdeen, Aberdeen, United Kingdom
- 2:10    **Efficacy of the HogHopper™ at Excluding Non-Target Wildlife from HOG-GONE® Baits**  
*Tyler A. Campbell\**, USDA/APHIS, Wildlife Services, National Wildlife Research Center, Gainesville, FL
- 2:35    **Eastern Fox Squirrels and Western Gray Squirrels in Southern California**  
*Alan Muchlinski\**, Department of Biological Sciences, California State University, Los Angeles, CA
- 3:00    *Break*
- 3:20    **Changes in Possum Spatial Behaviour Following a Control Operation: Implications for Conservation and Bovine Tuberculosis Management**  
*Belinda Whyte\**, Centre for Wildlife Management and Conservation, Lincoln University, Lincoln, New Zealand
- 3:45    **Migration of Brodifacoum and Diphacinone from Bait Pellets into Topsoil at Palmyra Atoll National Wildlife Refuge**  
*Aurora Alifano\**, Island Conservation, Santa Cruz, CA
- 4:10    **Finding Foxes in Tasmania: Faecal DNA Analysis Reveals Widespread Distribution of an Elusive Introduced Predator**  
*Stephen Sarre\**, Institute for Applied Ecology and Invasive Animals Cooperative Research Centre, University of Canberra, Canberra, Australia
- 4:35    **Pushing the Envelope in Paradise: A Novel Approach to Rat Eradication at Palmyra Atoll**  
*Alexander Wegmann\**, Island Conservation, Santa Cruz, CA

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## ***Poster Session***

*Tuesday March 6, 1:15 PM through Thursday March 8, 12 noon*

*Portola Room*

### **Effect of Coumestrol as an Alternative Product for Nonlethal Dog Population Control**

*Juan José Perez-Rivero\**, Universidad Autonoma Metropolitana Unidad Xochimilco, Mexico City, Mexico

### **Efficacy of Milorganite® as a Non-Venomous Snake Repellent**

*George R. Gallagher\**, Department of Animal Science, Berry College, Mount Berry, GA

### **The Effects of Soil Aeration on the Rodent Population at Kansas City International Airport**

*Gary Witmer\**, USDA/APHIS, Wildlife Services, National Wildlife Research Center, Fort Collins, CO

### **Bioefficacy of Brodifacoum (0.005% WB) against Commensal Rodents**

*Mohan I. Naik\**, University of Agricultural Sciences, Bangalore, India

### **Rodent Damage to Various Crops of Karnataka (India) and its Management**

*Mohan I. Naik\**, University of Agricultural Sciences, Bangalore, India

### **VPCRAC – A Historical Perspective**

*Sara Richards\**, California Department of Food and Agriculture, Sacramento, CA

### **Impact of Introduced Small Non-Volant Mammals on Mountain Native Fauna in the Philippines**

*Anna Pauline O. de Guia\**, University of the Philippines Los Baños, Laguna, Philippines

### **A Novel Approach to Transforming an Old Rodenticide**

*Brian Hopkins\**, Landcare Research, Lincoln, New Zealand



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