

Final Program



Sunday, August 28, 2005

2:00-6:00 Conference Registration and Check-In – North Foyer

Speaker Ready Room Opens – Boardroom

3:00-6:00 Exhibitor Check-In / Set-Up – Terrazza Ballroom

4:00-6:00 ICOET 2005 Steering Committee Meeting – Las Palmas

Monday, August 29, 2005

7:00-8:30 Continental Breakfast – Foyer

8:30-9:15 Conference Welcome and Opening Remarks – International Ballroom (Riviera thru St. Tropez)

Moderator: Leroy Irwin, Conference Chair

Welcome from CTE (James Martin, Associate Director, CTE, NC State University)

Welcome from the University of California at Davis, Road Ecology Center (Daniel Sperling, Director, Institute of Transportation Studies, and Co-Author, *Road Ecology: Science and Solutions*)

Welcome from Caltrans-District 11, San Diego (Charles “Muggs” Stoll, District Division Chief, Environmental, Caltrans)

Caltrans: On the Road to Environmental Stewardship! (Jay Norvell, Environmental Division Chief, Caltrans)

9:15-10:00 Session 1: Update on Federal and International Activities – International Ballroom (Riviera thru St. Tropez)

Moderator: Paul Garrett, FHWA Headquarters, USA

Update on the Activities of the Infra Eco Network of Europe (Hans Bekker, Ministry of Transport and Water Management, The Netherlands)

Results of the August 2005 INTECOL/ESA Conference in Montreal (Jochen Jaeger, Swiss Federal Institute of Technology, Switzerland)

SAFETEA-LU Overview (Mary Gray, FHWA Headquarters, USA)

Stewardship on the Horizon: Integrated Planning in the 21st Century (Patricia White, Defenders of Wildlife, USA)

10:00-10:30 Break – Foyer

10:30-12:00 Session 2: Cross-Cutting Session: ICOET 2005 Sneak Preview – International Ballroom (Riviera thru St. Tropez)

Environmental Retrofit for Highways: Making Habitat a Priority (Paul Wagner, Washington State DOT, USA)

Science-Based Approach to Adaptive Management of the Trans-Canada Highway Corridor in the Canadian Rocky Mountain Parks (Tony Clevenger, Western Transportation Institute, USA)

Maine’s Beginning with Habitat Program and Transportation Partnership (Barbara Charry, Maine Audubon, USA)

Wildlife Tunnels and Fauna Bridges in Poland: Past, Present, and Future (Jadwiga Brodziewska, Suwalki, Poland)

Species Conservation Banking: A New Business-Friendly Option for Protecting Endangered Species (Jessica Fox, EPRI Solutions, Inc., USA)

12:00-1:30 **Lunch (on own)**

1:30-3:00 **CONCURRENT SESSIONS 3A and 3B**

Session 3A: Integrating Transportation and Resource Conservation Planning: Conservation Banking – International Ballroom (Riviera thru St. Tropez)

Moderator: Sandy Jacobson, USDA Forest Service, USA

On the Road to Conservation Planning: State Conservation Strategies and Applications for Transportation Planning (Patricia White, Defenders of Wildlife, USA)

Integrating Transportation with Regional Conservation Planning (John DiGregoria, US Fish and Wildlife Service, USA)

Oregon DOT's Habitat Value Approach to Compensatory Mitigation Debit/Credit Calculations (William Warncke, Oregon DOT, USA; presenting for Bill Ryan)

SANDAG's TransNet Environmental Mitigation Program (Janet Fairbanks, San Diego Association of Governments, USA)

Session 3B: Transportation Corridor Vegetation Management – International Ballroom (San Marino)

Moderator: Bonnie Harper-Lore, FHWA Headquarters, USA

Mitigation for Dormice and their Ancient Woodland Habitat Alongside a Motorway Corridor (Warren Cresswell, Cresswell Associates, United Kingdom)

Response of Acacia Species to Soil Disturbance by Roadworks in Southern New South Wales (Peter Spooner, Charles Sturt University, Australia)

High Altitude Revegetation Experiments on the Beartooth Plateau (Liz Payson, ERO Resources Corporation, USA)

3:00-3:30 **Break – Foyer**

3:30-5:00 **CONCURRENT SESSIONS 4A and 4B**

Session 4A: Aquatic and Marine Ecosystems – International Ballroom (Riviera thru St. Tropez)

Moderator: Paul Wagner, Washington State DOT, USA

Culvert Test Bed: Fish Passage Research Facility (Walter Pearson, Battelle PNNL, USA; presenting for Chris May)

Restoration of Aquatic Habitat and Fish Passage Degraded by Widening of Indian Highway 58 in Garhwal Himalaya (Ramesh Sharma, Garhwal University, India)

Engineered Logjams, An Alternative Bank Protection Method for US 101 Along the Hoh River, Washington (Carl Ward, Washington State DOT, USA)

Role of Geomorphic River Reach Assessments in Developing Environmentally Beneficial Highway Protection Measures (Jennifer Black Goldsmith, Herrera Environmental Consultants, USA)

Session 4B: Context Sensitive Solutions: Integrating Community Values with Conservation Objectives – International Ballroom (San Marino)

Moderator: Amanda Hardy, Western Transportation Institute, Montana State University, USA

Integrating Community Values and Fostering Interagency Collaboration Through Outreach with Interactive GIS Models (Michael McCoy, University of California at Davis, USA)

Quick Fixes: Working Together to Address Herpetile Road Mortality in New York State (Debra Nelson, New York State DOT, USA)

Bayview Avenue Extension, Richmond Hill, Ontario. Habitat Creation and Wildlife Crossings in a Contentious Environmental Setting: A Case Study (Geoffrey Gartshore, Ecoplans Limited, Canada)

6:00-8:00 Exhibits Open — Terrazza Ballroom

International Welcome Reception — Foyer

(Sponsored by HDR Engineering, Inc., Sensor Technologies and Systems, Inc., and URS Corporation)

Tuesday, August 30, 2005

7:00-8:30 Continental Breakfast — Foyer

Business Meeting of the TRB Task Force on Ecology and Transportation — Portofino

8:30-10:00 CONCURRENT SESSIONS 5A and 5B

**Session 5A: Acoustics Ecology: Aquatics Issues — International Ballroom
(Riviera thru Monte Carlo)**

Moderator: Mary Gray, FHWA Headquarters, USA

How Did We Get Into This Mess? (Deborah McKee, Caltrans, USA)

What Do We Know About Pile Driving and Fish? (Arthur Popper, Center for Comparative and Evolutionary Biology of Hearing, University of Maryland, USA)

Barotrauma Injury of Physostomous and Physoclistous Fish by Non-Explosive Sound and Pressure Cycling (Thomas Carlson, Battelle-Pacific Northwest National Laboratory, USA)

Assessing the Impact of Pile Driving on Fish (A.D. Hawkins, Loughine Ltd., United Kingdom)

**Session 5B: Wildlife Impacts and Conservation Solutions: Herpetofauna —
International Ballroom (St. Tropez)**

Moderator: James Martin, CTE, North Carolina State University, USA

Amphibian Road Kill: A Global Perspective (Miklós Puky, Hungarian Danube Research Station of the Institute of Ecology and Botany, Hungary)

Effects of Road Mortality on a Population of Painted Turtles in Montana and the Potential to Minimize These Effects with Barrier Fencing (Kathy Griffin, University of Montana, USA)

Factors Influencing the Road Mortality of Snakes on the Upper Snake River Plain, Idaho (Denim Jochimsen, Idaho State University, USA)

How Do Highways Influence Snake Movement? Behavioral Responses to Roads and Vehicles (Kimberly Andrews, University of Georgia, USA)

10:00-10:30 Break — Foyer

10:30-12:00 CONCURRENT SESSIONS 6A and 6B

**Session 6A: Acoustics Ecology: Wildlife Impacts of Roadway Noise — International Ballroom
(Riviera thru Monte Carlo)
(Sponsored by UC-Davis Road Ecology Center)**

Moderator: Alison Berry, UC-Davis Road Ecology Center, USA

Evaluating and Minimizing the Effects of Pile Driving on the Marbled Murrelet (*Brachyramphus marmoratus*), A Threatened Seabird (Emily Teachout, US Fish and Wildlife Service, USA)

Impacts of Road Noise on Birds (Robert Dooling, University of Maryland, USA)

Synthesis of Noise Effects on Wildlife (Paul Kaseloo, Virginia State University, USA)

Bioacoustic Profiles: Evaluating Potential Masking of Wildlife Vocal Communication by Highway Noise (Edward West, Jones and Stokes, USA)

**Session 6B: Wildlife Impacts and Conservation Solutions: Large Mammals — International
Ballroom (St. Tropez)**

Moderator: Susan Hagood, Humane Society of the United States, USA

Modeling Highway Impacts Related to Grizzly Bear Core Habitat and Connectivity Habitat in the Greater Yellowstone Ecosystem Using a Two-Scale Approach (Lance Craighead, Craighead Environmental Research Institute, USA)

Evaluation of Principal Roadkill Areas for Florida Black Bear (Stephanie Simek, Florida Fish and Wildlife Conservation Commission, USA)

Effects of Highways on Elk Habitat in the Western United States and Proposed Mitigation Approaches (Bill Ruediger, Western Consulting Resources, USA)

Monitoring Effects of Highway Traffic on Wild Reindeer by Satellite (Bjørn Iuell, Norwegian Public Roads Administration, Norway)

12:00-1:30 Lunch (on own)

1:30-5:00 Poster Session – Mediterranean Ballroom (Las Palmas thru Portofino)

Studies of Fish Passage Through Culverts in Montana (Matt Blank, Montana State University, USA)

A Critical Look at Innovative Storm Water BMPs (Henry Barbaro, Massachusetts Highway Department, USA)

Tidal Marsh Restoration at Triangle Marsh (Chuck Morton, Caltrans-District 4, USA)

Riparian Restoration and Wetland Creation at Solano Community College (Michael Galloway, Caltrans, USA)

What Is “Natural?” Lessons Learned in Applying Context Sensitive Design to Stream Restoration and Mitigation Project Development (Kelley Jorgensen, URS Corporation, USA)

Engineered Logjam Technology: A Self-Mitigating Means for Protecting Transportation Infrastructure and Enhancing Riverine Habitat (Tim Abbe, Herrera Environmental Consultants, Inc., USA)

Managing Environmental Compliance for ODOT’s OTIA III State Bridge Delivery Program: Many Regulations – One Framework (Jason Neil, Oregon Bridge Delivery Partners, USA)

California Innovation with Highway Noise and Bird Issues (Robert James, Caltrans, USA)

Bird Protection Walls: An Innovative Way to Prevent Bird Strikes? (Csaba Varga, Birdlife Hungary, Hungary)

Assessing Functional Landscape Connectivity for Songbirds in an Urban Environment (Marie Tremblay, University of Alberta, Canada)

The Effects of Roads on Birds: a North American Review (John Lloyd, Mason, Bruce & Girard Inc., USA)

Combining Transportation Improvements and Wildlife Connectivity on Freeway Rebuild in Washington’s Cascade Mountains (Charlie Raines, I-90 Wildlife Bridges Coalition, USA)

Planning a Sustainable Community: Natural Areas Management and Infrastructure Development (Sherri Neff-Swanson, Sarasota County Government, USA)

Colorado Wildlife on the Move: A Wildly Successful Road Ecology Awareness Campaign (Monique DiGiorgio, Executive Director, Southern Rockies Ecosystem Project, USA)

The Role of Transportation Corridors in Plant Migration in and Around an Arid Urban Area: Phoenix, Arizona (Kristin Gade, Arizona State University)

The Invasive Common Reed (*Phragmites australis*) Along Roads in Québec (Canada) : A Genetic and Biogeographical Analysis (Lelong Benjamin, Centre de Recherche en Aménagement et Développement, Canada)

Road Ecology of the Northern Diamondback Terrapin, *Malaclemys terrapin terrapin* (Stephanie Szerlag, Saint Joseph’s University, USA)

The Return of the Eastern Racer to Vermont; Advance Habitat Mitigation Through Collaboration (Chris Slesar, Vermont Agency of Transportation, USA)

Road Crossings and Arroyo Toad (Steve Eastwood, Engineer, Cleveland National Forest, USA)

Impacts of Standard Drop Inlet/Catch Basin Drain Structures on Amphibians and Small Mammals in Western Washington (Michael MacDonald, Washington State Department of Transportation, USA)

Wildlife Tunnels and Fauna Bridges in Poland: Past, Present, and Future (Jadwiga Brodziewska, Suwalki, Poland)

Software for Pocket PC to Collect Road-Kill Data (Marcel Huijser, Western Transportation Institute - Montana State University, USA)

Wildlife Crossings Toolkit: A Comprehensive Online Source of Information on Wildlife and Highways (Sandra Jacobsen, USDA Forest Service, USA)

1:30-3:00 Session 7B: Streamlining in Washington State – International Ballroom (Riviera thru Monte Carlo)

Moderator: Debra Nelson, New York State DOT, USA

Transportation Permit Efficiency and Accountability Committee (Barbara Aberle, Washington State DOT, USA)

Use of a Multi-Agency Permitting Team (Christina Martinez, Washington State DOT, USA)

Web-Based Permitting in Washington (Scott Boettcher, Washington State Department of Ecology, USA)

WSDOT Programmatic Permit Program (Marion Carey, Washington State DOT, USA)

3:00-3:30 Break – Foyer

3:30-5:00 Session 8B: Context Sensitive Solutions: Integrating Community Values with Conservation Objectives – International Ballroom (Riviera thru Monte Carlo)

Moderator: Bill Ruediger (Retired), USDA Forest Service, USA

Improving Mobility for Wildlife and People: Transportation Planning for Habitat Connectivity in Washington State (Paul Wagner, Washington State DOT, USA)

Connecting Values, Process and Project Design: Twinning the Trans-Canada Highway in Banff National Park of Canada (Terry McGuire, Parks Canada, Canada)

Environmental Imperatives and the Engineering Interface: How to Make Hard Decisions (Martin Jalkotzy, Golder Associates, Ltd., Canada)

Case Study in Context Sensitive Design in Transportation Planning (Kenneth Deats, McCormick Taylor, Inc., USA)

6:00-10:00 Integrating California's Transportation Planning and Wildlife Conservation Strategy: Workshop and Dinner Meeting – Portofino (By Invitation Only) (Sponsored by Defenders of Wildlife)

Defenders of Wildlife host a by-invitation-only dinner workshop to discuss the integration of California's wildlife conservation strategy and transportation planning process. For more information, contact Trisha White at twhite@defenders.org.

Wednesday, August 31, 2005

7:00-8:00 Coffee/Muffin To-Go Station – Foyer

Pick up box lunches for field trips
Board buses

8:00-5:00 FIELD TRIPS: Organized and hosted by Caltrans

Transportation Challenges in Coastal San Diego County
(Field Trip Option #1)

This trip begins with a stop at the South Bay Unit of the San Diego National Wildlife Refuge. With 90-100% of submerged lands, inter-tidal mudflats, and salt marshes eliminated in the north and central San Diego Bay, the South San Diego Bay refuge, dedicated in 1999, will preserve and restore the remaining wetlands, mudflats, and eel grass beds to help ensure the survival of the bay's thousands of migrating and resident shorebirds and waterfowl. The bay supports numerous endangered and threatened species of plants and animals and is a vital link to other wildlife areas. All of the refuges in the San Diego Refuge Complex have been designated "Globally Important Bird Areas" by the American Bird Conservancy; the South San Diego Bay Refuge was recently designated as a Western Hemisphere Shorebird Reserve site.

The tour proceeds north along the Silver Strand, a narrow neck of land that connects the mainland to Coronado "Island" and separates San Diego Bay from the Pacific Ocean. From Coronado, the tour heads across the Bay on the Coronado Bridge, and then up the coast on I-5. This leg of the trip explores the challenges and opportunities for collaboration and stewardship on the 26-mile-long North Coast Corridor Project, and includes a picnic lunch on the beach.

Heading east, participants visit the Pilgrim Creek Mitigation Bank, which is managed by Caltrans. Returning south on I-15, participants see the effects and restoration challenges posed by the devastating 2003-04 wildfires, which were followed by the torrential rains of 2004-05.

Transportation Challenges in Inland San Diego County
(Field Trip Option #2)

This trip focuses on environmental challenges and opportunities addressed by recent transportation and mitigation projects in inland San Diego County. The tour begins in southern San Diego County with a review of two projects near the international border. This leg of the tour includes some large vernal pool mitigation sites, as well as review of design features and mitigation measures to facilitate wildlife movement in the Otay Mesa area.

The tour then heads north on SR-94, where participants see the effects and restoration challenges posed by the devastating 2003-04 wildfires. The next stop is the Rancho Jamul Ecological Reserve, operated by the California Department of Fish and Game. This site is an important component of the Multiple Species Conservation Program (MSCP) multi-habitat preserve system in southwestern San Diego County, supporting large areas of coastal sage scrub, annual grasslands and riparian habitat. The Reserve is adjacent to the Otay-Sweetwater Unit of the San Diego National Wildlife Refuge.

After a picnic lunch and tour at the Reserve, the tour heads north and east to view wetlands mitigation sites along SR-56, as well as bridges over wildlife corridors.

6:00-9:00 Mission Bay Beach Barbecue – South Poolside

Thursday, September 1, 2005

7:00-8:30 Continental Breakfast – Foyer

8:30-10:00 CONCURRENT SESSIONS 9A, 9B and 9C

Session 9A: Streamlining, Stewardship, and Sustainability – International Ballroom (Sorrento)

Moderator: Tom Linkous, Chair, TRB Task Force on Ecology and Transportation / Ohio Department of Natural Resources, USA

Species Conservation in Idaho: Going Beyond the Endangered Species Act (Brent Inghram, FHWA-Idaho Division, USA)

Temporal Loss of Wetlands as Justification for Higher Mitigation Ratios (Paul Garrett, FHWA Headquarters, USA)

Managing Environmental Compliance for Oregon Department of Transportation's OTIA III State Bridge Delivery Program: Many Regulations – One Framework (Zak Toledo, Oregon Bridge Delivery Partners, USA)

Addressing the "Scenic" in the Wild and Scenic River Act (Michael Hughes, RESOLVE, USA) withdrawn

Oregon Department of Transportation's OTIA III Bridge Program: 400 Bridges – One Biological Opinion (Michael Bonoff, Mason, Bruce, & Girard, Inc., USA)

Session 9B: Wildlife Crossings: Planning, Selection, Placement, and Monitoring for Effectiveness – International Ballroom (San Marino)

Moderator: Chris Servheen, U.S. Fish and Wildlife Service, University of Montana, USA

Wildlife Crossings in North America: The State of the Science and Practice (Patricia Cramer, Utah State University, USA)

How Many Days to Monitor a Wildlife Passage? Species Detection Patterns and the Estimation of Vertebrate Fauna Using Crossing Structures in a Motorway (Juan Malo, Universidad Autonoma de Madrid, Spain)

The Design, Installation and Monitoring of Safe Crossing Points for Bats on a New Highway Scheme In Wales (Stephanie Wray, Cresswell Associates, United Kingdom)

Highway Underpass Use by Large Mammals in Virginia and Factors Influencing their Effectiveness (Bridget Donaldson, Virginia Transportation Research Council, USA)

Session 9C: Animal-Vehicle Collision Prevention and Reduction – International Ballroom (Capri)

Moderator: Sandy Jacobson, USDA Forest Service, USA

Upgrading a 144km Section of Highway in Prime Moose Habitat : Where, Why and How to Reduce Moose-Vehicle Collisions (Yves Leblanc, Tecslut, Inc., Canada)

Evaluation of Highway Modifications in Reducing Key Deer Mortality Along the US 1 Corridor (Anthony Braden, Texas A&M University, USA)

What Features of the Landscape and Highway Influence Ungulate Vehicle Collisions in the Watersheds of the Central Canadian Rocky Mountains? A Fine-Scale Perspective (Kari Gunson, Parks Canada, Canada)

A Probabilistic Approach to Estimating Road Lethality (John Waller, National Park Service, USA)

10:00-10:30 Break – Foyer

10:30-12:00 CONCURRENT SESSIONS 10A, 10B and 10C

Session 10A: Integrating Transportation and Resource Conservation Planning: Conservation Planning – International Ballroom (Sorrento)

Moderator: Trisha White, Defenders of Wildlife, USA

The Missing Linkages Project: Restoring Wildland Connectivity to Southern California (Wayne Spencer, Conservation Biology Institute, USA)

Linking Colorado's Landscapes (Julia Kintsch, Southern Rockies Ecosystem Project, USA)

Incorporating Results from the Prioritized "Ecological Hotspots" Model into the Efficient Transportation Decision Making (ETDM) Process in Florida (Daniel Smith, University of Central Florida, USA)

The Swiss Defragmentation Programm (Marguerite Trocmé, Swiss Agency for the Environment, Switzerland)

Session 10B: Wildlife Impacts and Conservation Solutions: Small Mammals – International Ballroom (San Marino)

Moderator: Stephanie Stoermer, FHWA-California Division, USA

Addressing Habitat Fragmentation Impacts from Construction of a New Highway (Marion Carey, Washington State DOT, USA)

Modeling the Effect of Roads and other Disturbances on Wildlife Populations in the Peri-Urban Environment to Facilitate Long-Term Viability (Daniel Ramp, University of New South Wales, Australia)

Walking at Height (Hans Bekker, Ministry of Transport, The Netherlands)

Effectiveness of Rope Bridge Overpasses and Faunal Underpasses in Providing Connectivity for Rainforest Fauna (Miriam Goosem, Rainforest CRC, Australia)

Session 10C: Animal-Vehicle Collision Prevention and Reduction – International Ballroom (Capri)

Moderator: Chris Servheen, U.S. Fish and Wildlife Service, University of Montana, USA

OPTIFLUX : A Tool for Measuring Wild Animal Population Fluxes for the Optimization of Road Infrastructures (Philippe Thievent, SCETAUROUTE - Groupe EGIS, France)

Use of Video Surveillance to Assess Wildlife Behavior and Use of Wildlife Underpasses in Arizona (Jeffrey Gagnon, Arizona Game and Fish Department, USA)

Effects of Gender on Spatial and Temporal Patterns of Deer-Vehicle Collisions (Laura Daugherty, Juniata College, USA)

Reliability of the Animal Detection System Along HWY 191 in Yellowstone National Park, MT (Marcel Huijser, WTI-Montana State University, USA)

Use of GPS Telemetry to Assess Elk Highway Permeability and Compare Highway Crossing and Elk-Vehicle Collision Patterns (Norris Dodd, Arizona Game and Fish Department, USA)

12:00-1:30

Keynote Luncheon – International Ballroom (Riviera thru St. Tropez)

(Sponsored by Electrobraided Fence, Inc., and the MRUTC Deer-Vehicle Crash Information Clearinghouse and Sand County Foundation)

Facilitator: Sheila Mone, Caltrans, USA

Featured Speaker: Dr. Bruce Leeson, Senior Environmental Assessment Scientist, Parks Canada - Western Service Centre (Calgary)

Topic: “Beauty and the Beast - Human Dimensions in Ecology and Transportation”

Dr. Bruce Leeson will describe the lessons learned in thirty years of planning and building a highway for people and wildlife in Banff National Park, where the human factors of this undertaking posed far greater challenges than either the ecological science or engineering elements.

1:30-5:00

Poster Session – Mediterranean Ballroom (Las Palmas thru Portofino)

The Aftermath of Hurricane Ivan – Reconstructing Roadways While Recovering Species (Mary Mittiga, U.S. Fish and Wildlife Service, USA)

Arizona Wildlife Linkages (Siobhan Nordhaugen, ADOT Natural Resources Management Section, USA)

Integrated Training Course for Engineers and Wildlife Biologists (Sandra Jacobson, Wildlife Biologist, USDA Forest Service, USA)

Use and Selection of Highway Bridges by Rafinesque’s Big-Eared Bats in South Carolina (Frances Bennett, Institute of Environmental Toxicology, USA)

Inferring White-Tailed Deer Population Trends from Wildlife Collisions in the City Of Ottawa, Ontario (Kerri Widenmaier, Canada)

Highway Crossing Structures for Metropolitan Portland’s Wildlife (Linda Anderson, Portland State University, USA)

How to Teach a Mule Deer to Safely Cross an Interstate? Preliminary Results of a Wildlife Mortality Mitigation Strategy on Interstate 15 in Utah, USA (Silvia Rosa, USGS Utah Coop. Fish and Wildlife Research Unit, Utah State University, USA)

Spatial Patterns of Road Kills: A Case Study in Southern Portugal (Fernando Ascensão, Universidade de Évora, Portugal)

Ledges to Nowhere - Structure to Habitat Transitions (Stephen Tonjes, Florida Department of Transportation, USA)

Controlling White-Tailed Deer Intrusions with Electric Fence and Mat (Thomas Seamans, USDA/APHIS/Wildlife Services/NWRC-Ohio Field Station, USA)

A Decision Tool for Mitigating Roads for Wildlife: The NCHRP 25-27 Project (John Bissonette, USGS Utah Cooperative Fish and Wildlife Research Unit, Utah State University, USA)

Thinking Outside the Marketplace: A Biologically Based Approach to Reducing Deer-Vehicle Collisions (Gino J. D’Angelo, University of Georgia, USA)

Quantifying and Mitigating the Barrier Effect of Roads and Traffic on Australian Wildlife (Jody Taylor and Silvana Cesarini, Australian Research Centre for Urban Ecology, Australia)

Using Remote Sensing Cameras and Track Surveys to Assess Wildlife Movement Through a Probable Wildlife Linkage Bisected by Two Major Highways (Janice Przybyl, Wildlife Monitoring Program Coordinator, Sky Island Alliance, USA)

Citizen Science and Wildlife Crossing Locations Along Highway 3 in the Crowsnest Pass of Southwestern Alberta (Tracy Lee, Research Associate, Miistakis Institute, Canada)

National Implications of Regional Deer-Vehicle Crash Data Collection, Management, and Trends (Keith Knapp, University of Wisconsin – Madison, USA)

Citizen Monitoring of Decommissioned Roads in the Clearwater National Forest (Katherine Court, Graduate Student, University of Montana, USA)

Landscape Ecology in Transportation Planning (Patricia McQueary, Washington State DOT-SCR, USA)

Habitat Restoration Plan and Programmatic Biological Assessment for *Potamilus capax* (Green 1832) in Arkansas (Alan Christian, Environmental Sciences Program, Arkansas State University, USA)

Monitoring of Wildlife Crossing Structures on Irish National Road Schemes (Lisa M. J. Dolan, University College Cork, Ireland)

Wildlife Hotspots Along Highways in Northwestern Oregon (Melinda Trask, Oregon Department of Transportation, USA)

I-90 Snoqualmie Pass East Project: Linking Communities in the Natural and Built Environment (Jason Smith and Randall Giles, Washington State Department of Transportation, USA)

1:30-3:00 Session 11B: Integrating Transportation and Resource Conservation Planning: Landscapes & Road Networks – International Ballroom (San Marino)

Moderator: Joe Burns, U.S. Fish and Wildlife Service, USA

Corridor Analysis for Transportation and Environmental Planning via Land Cover Mapping and Species Distribution Modeling (Michael McCoy, University of California at Davis, USA)

Does the Configuration of Road Networks Influence the Degree to which Roads Affect Wildlife Populations? (Jochen Jaeger, Swiss Federal Institute of Technology, Switzerland)

Integrating Traffic, Network Location, and Surrounding Habitat to Create a Connected Landscape (Richard T.T. Forman, Harvard University, USA)

The Ecologically Ideal Road Density for Small Islands: The Case of Kinmen, Taiwan (Shyh-Chyang Lin, National Kinmen Institute of Technology, Taiwan)

3:00-3:30 Break – Foyer

3:30-5:00 Session 12B: Wildlife Crossings: Planning, Selection, Placement, and Monitoring for Effectiveness – International Ballroom (San Marino)

Moderator: Vicki Sharpe, Florida DOT, USA

How Far into a Forest Does the Effect of a Road Extend? Defining Road Edge Effect in Temperate Australia (Zoe Pocock, Victoria, Australia)

Ecological Impacts of SR 200 on the Ross Prairie Ecosystem (Daniel Smith, University of Central Florida, USA)

Railroad Crossing Structures for Spotted Turtles (Steven Pelletier, Woodlot Alternatives, Inc., USA)

Spotted Turtle Use of a Culvert under Relocated Route 44 in Carver, Massachusetts (Kevin Walsh, Vanasse Hangen Brustlin, Inc., USA; presenting for Delia Kaye)

Friday, September 2, 2005

7:00-8:30 Continental Breakfast – Foyer

8:30-10:00 CONCURRENT SESSIONS 13A and 13B

Session 13A: Integrating Transportation and Resource Conservation Planning: Science and Partnerships – International Ballroom (Sorrento thru Capri)

Moderator: Hans Bekker, Ministry of Transport, The Netherlands

A GIS-Based Identification of Potentially Significant Wildlife Linkage Habitats Associated with Roads in Vermont (Kevin Viani, Vermont Fish and Wildlife Department, USA)

Connecting Transportation and Wildlife Habitat Linkages Through Partnerships, Planning and Science Near Los Angeles, California (Ray Sauvajot, National Park Service, USA)

Sierraville (California) Highway 89 Stewardship Team: Ahead of the Curve (Sandra Jacobson, USDA Forest Service, USA)

Washington State DOT Highway Maintenance: Environmental Compliance for Protected Terrestrial Species (Tracie Caslin, Washington State DOT, USA)

**Session 13B: Wildlife Ecology and High Speed Rail – International Ballroom (Riviera)
(Sponsored by Defenders of Wildlife)**

Moderator: Cynthia Wilkerson, Defenders of Wildlife, USA

This session presents general ecological impacts of High Speed Rail, with a focus on both positive elements and drawbacks. An overview of the California High Speed Rail Proposal is presented and several perspectives on this proposal explores various implications. The session culminates with a moderated panel discussion, including the audience, regarding the California proposal.

Presenters include:

Bill Gallagher, Rail Operations Consultant, Palm Springs, CA, USA

Dick Cameron, Senior Conservation Planner, The Nature Conservancy, San Francisco, CA, USA

Kristeen Penrod, Executive Director, South Coast Wildlands Project, Idyllwild, CA, USA

10:00-10:30 Break – Foyer

**10:30-11:30 Session 14: Research and Resources: What's Coming Up? – International Ballroom
(Sorrento thru Capri)**

Facilitator: Alison Berry, UC-Davis Road Ecology Center, USA

Federal Resource Guide. Eco-Logical: An Ecosystems Approach to Infrastructure Projects (Tom Pettigrew, USDA Forest Service, USA)

National Academy of Sciences Report. Assessing and Managing the Ecological Impacts of Paved Roads (Paul Wagner, Washington State DOT, USA)

National Highway Institute Course. Stream Impacts and Restoration (Paul Garrett, FHWA Headquarters, USA)

**11:30-12:00 Session 15: Conference Wrap-Up, Session Highlights -- International Ballroom
(Sorrento thru Capri)**

Facilitator: Leroy Irwin, Conference Chair

12:00 noon ICOET 2005 Adjourns