Appendices

Final Program

Sunday, May 20

2:00 - 5:00  Conference Registration and Check-In (Balcony)
Speaker Ready Room - Open all week (Peck)

7:30 - 9:30  ICOET 2007 Steering Committee Business Meeting (Upper Pinnacle)

Monday, May 21

7:30 - 8:30  Continental Breakfast (Salons B & C Foyer)

8:30 - 9:15  Conference Welcome and Opening Remarks (Salons B & C)
Moderator: Debra Nelson, New York State DOT
James Martin, Associate Director, CTE
Dan Flowers, Director, Arkansas State Highway and Transportation Department

9:15 - 10:00  Session 1: Update on U.S./International Activities (Salons B & C)
Moderator: Hans Bekker, IENE
Hans Bekker, Liaison, Infra Eco Network of Europe
Rodney van der Ree, Ecologist, Australian Research Centre for Urban Ecology
Rodney Schlickeisen, President, Defenders of Wildlife
Mamie Parker, Assistant Director, U.S. Fish and Wildlife Service - Fisheries and Habitat Conservation
Carol Adkins, Water and Ecosystems Team Leader, Federal Highway Administration

10:00 - 10:30  Break (Salons B & C Foyer)

10:30 - Noon  Session 2: Cross-Cutting Session (Salons B & C)
Moderator: Debra Nelson, New York State DOT

Stewart Airport Ecosystem: Taking Off with Innovative Approaches
(Debra Nelson, New York State DOT, Albany, NY, USA)

Supporting Transportation, Water and Ecological Systems in the Great Lakes Basin
(Judy Beck, Great Lakes National Program Office, Chicago, IL, USA)

Arizona’s Wildlife Linkages Assessment (Bruce Eilerts, Arizona DOT, Phoenix, AZ, USA)

Overcoming the Barrier Effect of Roads: How Effective Are Mitigation Strategies?
(Rodney van der Ree, Australian Research Centre for Urban Ecology, Melbourne, Victoria, Australia)

Noon - 1:30  Lunch (on your own)

Noon - 1:30  Defenders of Wildlife Workshop (By Invitation Only):
“Getting Up To Speed: A Symposium on Wildlife and Transportation for Advocates” (Chicot)

The purpose of this session is to inform, educate and inspire conservation advocates and improve relationships among all those working on surface transportation issues at any level. The panel will consist of veterans from professional sectors and agencies involved in conservation and transportation. Together, participants and panelists will develop recommendations for further improving relationships between agencies and advocates. Box lunches provided.
1:30 - 3:00  CONCURRENT SESSIONS 3A, 3B and 3C

Session 3A: Coordination & Regulatory Compliance (Salon A)

Moderator: Paul Garrett, FHWA

Streamlining ESA Section 7 Consultations: Bedell Street Bridge Project, Del Rio, Texas (Allison Arnold, U.S. Fish and Wildlife Service, Austin, TX, USA)

Oregon DOT’s OTIA III Bridge Program: Three Years of Environmental Stewardship (Shelley Richards, HDR Engineering, Inc., Salem, OR, USA)

Geyersville: 1,000 Feet in 110 Days (Charles Morton, California Department of Transportation, Oakland, CA, USA)

Regulatory Compliance on Multistate and Multimodal Projects: Bridging the Gaps Between States and Among NEPA Co-leads (Heather Gundersen, Oregon Department of Transportation, Vancouver, WA, USA)

Session 3B: Transportation Operations – Part I of III (Conway)

Moderator: Phillip Moore, Arkansas HTD

Conservation Management of Historic Road Reserves in Australia (Peter Spooner, Charles Sturt University, Albury, New South Wales, Australia)

Goals, Pros and Cons of a Massive Increase in Roadside Woody Vegetation (Richard T.T. Forman, Harvard University, Cambridge, MA, USA)

Prescribed Fire is Cool on Florida Highway (Jeff Caster, Florida DOT, Tallahassee, FL, USA)

Establishment Success of Native Versus Non-native Herbaceous Seed Mixes on a Revegetated Roadside in Central Texas (Jeannine Tinsley, Lady Bird Johnson Wildflower Center, University of Texas at Austin, Austin, TX, USA)

Session 3C: Wildlife & Terrestrial Ecosystems (Data Surveys & Decision Support Guidelines) (Salons B & C)

Moderator: Paul Wagner, Washington State DOT

North American Decision Guidelines for Mitigating Roads for Wildlife (John Bissonnette, USGS Utah Cooperative Research Unit, Utah State University, Logan, UT, USA)

Animal-Vehicle Collision Data Collection Throughout the United States and Canada (Marcel Huijser, Western Transportation Institute, Montana State University, Bozeman, MT, USA)

Can Wildlife-Vehicle Collisions be Decreased by Increasing the Number of Wildlife Passages in Korea? (Tae-Young Choi, Environmental Planning Institute, Seoul National University, Gwanak-gu, Seoul, South Korea)

Inventory and Typology of Fauna Passages on French Transport Structures (Sabine Bielsa, SETRA [French Technical Service of Roads and Motorways], Bagneux, Ile de france, France)

3:00 - 3:30  Break (Salons B & C Foyer)

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

Session 4A: Wildlife & Terrestrial Ecosystems (Herpetiles) (Salon A)

Moderator: Susan Hagood, Humane Society of the United States

Use of Existing Mitigation Measures by Amphibians, Reptiles and Small- to Medium-Size Mammals in Hungary: Crossing Structures Can Function as Multiple Species-Oriented Measures (Miklós Puky, Hungarian Danube Research Station, Institute of Ecology and Botany, JÁ¶vorka, Hungary)

Effectiveness of Amphibian Mitigation Measures Along a New Highway (Jed Merrow, McFarland-Johnson, Inc. Concord, NH, USA)

Road Effects on a Population of Copperhead Snakes in the Land Between the Lakes National Recreation Area, KY (Valorie Titus, Binghamton University, Brookhaven National Laboratory, Upton, NY, USA)
Session 4B:  Transportation Operations – Part II of III (Conway)

Moderator: Alison Berry, UC-Davis Road Ecology Center

Developing Fauna-Friendly Transport Structures (Christof Elmiger, Swiss Agency for the Environment, Bern, Switzerland)

Road Crossing Structures for Amphibians and Reptiles: Informing Design through Behavioral Analysis (Hara Woltz, Nelson Byrd Woltz Landscape Architects, New York, New York, USA)

Ecological Performance of Mitigation Wetlands in a Predominantly Agricultural Landscape (Terry J. VanDeWalle, Natural Resources Consulting, Inc., Independence, IA, USA)

Effective Wetland Mitigation Site Management: Plant Establishment to Closeout (Paul Wagner, Washington State DOT, Olympia, WA, USA)

Session 4C:  Integrating Transportation & Conservation Planning (New Developments) (Salons B & C)

Moderator: Trisha White, Defenders of Wildlife

Watershed Approaches to Compensatory Mitigation: Using Comprehensive Mitigation Planning to Achieve More Effective Mitigation for Transportation Projects (Jan Cassin, Parametrix, Inc., Bellevue, WA, USA)

Integrating Wildlife Crossings into Transportation Plans in Projects in North America (Patricia Cramer, USGS Cooperative Unit, Utah State University, Logan, UT, USA)

Missing Linkages: Nationwide Survey of State-Based Habitat Connectivity and/or Wildlife Linkage Analyses (Jesse Feinberg, Defenders of Wildlife, Washington, DC, USA)

5:00   Adjourn

6:00 - 9:00  International Welcome Reception at the Clinton Presidential Library and Museum

Thanks to our sponsors! ARCADIS-US/NL, The Nature Conservancy, URS Corporation

Tuesday, May 22

7:30 - 8:30  Continental Breakfast (Salons B & C Foyer)

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

Session 5A:  Integrating Transportation & Conservation Planning (Eco-Logical Approaches) (Conway)

Moderator: Mary Gray, FHWA Headquarters

Application of Ecological Assessments to Regional and Statewide Transportation Planning (Joe Burns, U.S. Fish and Wildlife Service, Arlington, VA, USA)

Applying the Eco-Logical Framework in Montana: The Good, The Bad and The Ugly (Ted Burch, FHWA-Montana Division; Scott Jackson, U.S. Fish and Wildlife Service; Deborah Wombach, Montana Department of Transportation, Bozeman, MT, USA)

Justifying Environmental Stewardship: Oregon Department of Transportation's Wildlife Collision Prevention Plan Case Study (Melinda Trask, Oregon Department of Transportation, Salem, OR, USA)

Habitat Linkage within a Transportation Network (Sherri Swanson, HDR Engineering, Inc., Sarasota, FL, USA)

Session 5B:  Transportation Operations – Part III of III (Arkansas Ballroom)

Moderator: Tom Linkous, TRB ADC 30 Committee Chair

Washington State DOT Bridge Maintenance and Inspection Guidance for Protected Terrestrial Species (Marion Carey, Washington State DOT, Olympia, WA, USA)

Dark Beaches: Florida DOT’s Continued Efforts to Implement Environmentally Sensitive Lighting Systems (Ann Broadwell, Florida DOT District 4, Fort Lauderdale, FL, USA)

Oregon Strategies for Transportation Compliance with the Migratory Bird Treaty Act (Chris Maguire, Oregon DOT, Salem, OR, USA)
Canasawacta Creek Watershed Initiative  
(Mary O’Reilly, New York State DOT Region 9, Binghampton, NY, USA)

10:00 - 10:30  Break (Salons B & C Foyer)

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

Session 6A:  Acoustic Ecology - Wildlife & Terrestrial Ecosystems (Partnerships for Success) (Conway)

Moderator: Chris Servheen, U.S. Fish and Wildlife Service

Measuring the Success of Wildlife Movement Across Highways and Linkage Efforts  
(Christopher Servheen, U.S. Fish and Wildlife Service, Missoula, MT, USA)

Case Study: Harbor Boulevard Wildlife Underpass, Los Angeles County, CA  
(Andrea Gullo, Habitat Authority, Whittier, CA, USA)

Under the Boardwalk: Case History — St. John's Sideroad at the McKenzie Wetland, Aurora, Ontario, Canada (Ian Buchanan, Regional Municipality of York, Newmarket, Ontario, Canada)

Coordination of Agency and Citizen Involvement in Project Development and Monitoring for the I-90 Snoqualmie Pass East Project (Jen Watkins, I-90 Wildlife Bridges Coalition, Seattle, WA; and Patty Garvey-Darda, USDA Forest Service, Cle Elum, WA, USA)

Session 6B:  Fisheries & Aquatic Ecosystems–Part I of II (Arkansas Ballroom)

Moderator: Ann Campbell, EPA Headquarters

Strategic Approach for Identification and Correction of Fish Passage on National Forest Lands for Pacific Northwest (David Heller, USDA Forest Service, PNW Region, Portland, OR, USA)

Review of the Influences of Road Crossings on Warmwater Fishes Movement and Fish Communities in Ouachita Mountain Streams, Ouachita National Forest (Richard Standage, Ouachita National Forest, USDA Forest Service, Hot Springs, AR, USA)

Juvenile Salmon Passage in Sloped-Baffled Culverts (David Thurman, University of Washington, Seattle, WA, USA)

Protecting and Enhancing River and Stream Continuity (Scott Jackson, University of Massachusetts Extension Amherst, MA, USA)

12:00 - 1:30  FHWA Environmental Awards Luncheon (Salons B & C)

1:30 - 3:00  CONCURRENT SESSIONS 7A and 7B

Session 7A:  Poster Session (Salon A)

Session 7B:  Fisheries & Aquatic Ecosystems – Part II of II (Arkansas Ballroom)

Moderator: John Harris, Arkansas HTD

Erasing the False Hard Line Between Aquatic and Terrestrial Passages: Recommendations for Integrating Objectives in Transportation Planning (Sandra Jacobson, USDA Forest Service, Arcata, CA, USA)

Inventory and Sediment Modeling of Unpaved Roads for Stream Conservation Planning (Ethan Inlander, The Nature Conservancy, Fayetteville, AR, USA)

Assessment of Freshwater Mussel Relocation as a Conservation Strategy (Andrew Peck, Arkansas State University, Little Rock, AR, USA)

Habitat Restoration and Mitigation on the Impact of a Transportation Network on Hyporheic Organisms Dwelling in the Upper Ganges, India (Ramesh C. Sharma, H.N.B. Garhwal University, Srinagar-Garhwal, Uttarakhand, India)

3:00 - 3:30  Break (Salons B & C Foyer)

3:30 - 5:00  CONCURRENT SESSIONS 8A and 8B

Session 8A:  Poster Session (Salon A)
Session 8B: Integrating Transportation & Conservation Planning (Urban Areas) (Conway)

Moderator: Randal Looney, FHWA-Arkansas Division

Green Infrastructure, Environmental Mitigation and Transportation Planning in Kansas City (Tom Jacobs, Mid-America Regional Council, Kansas City, MO, USA)

Impacts of Different Growth Scenarios in the San Joaquin Valley, CA (Karen Beardsley, Information Center for the Environment, Davis, CA, USA)

Sonoran Desert Conservation Plan and Regional Transportation Planning: A Case Study in Challenges for Protecting and Restoring Wildlife Connectivity in Urbanized Areas (Carolyn Campbell, Coalition for Sonoran Desert Protection, Tucson, AZ, USA)

Limitations to Wildlife Habitat Connectivity in Urban Areas (Melinda Trask, Oregon Department of Transportation, Salem, OR, USA)

5:00 Day Two Sessions Adjourn, Dinner (on own)

7:00 TRB Committee on Ecology and Transportation Business Meeting (By Invitation Only) (Arkansas Ballroom)

7:00 PARC Roads Task Force Meeting (By Invitation Only) (Manning)

Wednesday, May 23

7:00 - 8:00 Muffin/Coffee To-Go Station. Pick up box lunches. (Salons A & B Foyer)

8:00 - 5:00 FIELD TRIPS

Thanks to Carter-Burgess Little Rock for providing snack refreshments!
Field Trip Option 1: White River Bridge Replacement, Clarendon, AR
Field Trip Option 2: Rixey Bayou Wetlands Mitigation Area and Fourche Creek Watershed Restoration Project/Little Rock - Audubon Nature Center

6:00 - 9:00 Little Rock Barbecue at the Museum of Discovery

Thanks to HDR Engineering, Inc. for their generous support of this event, along with Garner Engineers and Historic Preservation Associates!

Thursday, May 24

7:00 - 8:30 SCB Board Meeting (By Invitation Only) (Manning)

7:30 - 8:30 Continental Breakfast (Salons B & C Foyer)

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

Session 9A: Wildlife & Terrestrial Ecosystems (Large Mammals & Ungulates) (Salon C)

Moderator: Hans Bekker, IENE/Ministry of Transport and Water Management, The Netherlands

Construction of a Highway Section Within a White-Tailed Deer Winter Yard Near Quebec City, Quebec, Canada: Mitigation Measures, Monitoring and Preliminary Results (Yves Leblanc, TecSult Inc., Quebec City, Quebec, Canada)

Using Site-Level Factors to Model Areas at High Risk of Deer-Vehicle Collisions on Arkansas Highways (Philip Tappe, University of Arkansas at Monticello, Monticello, AR, USA)

Behavioral Responses of White-Tailed Deer to Vehicle-Mounted, Sound-Producing Devices (Sharon Valitzski, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA, USA)

Evolution of Wildlife Exclusion Systems on Highways in British Columbia (Leonard Sielecki, British Columbia Ministry of Transportation, Victoria, BC, Canada)

Session 9B: Wildlife & Terrestrial Ecosystems (Multispecies Approaches) (Salon B)

Moderator: Melinda Trask, Oregon DOT

Habitat, Highway Features and Animal-Vehicle Collision Locations as Indicators of Wildlife Crossing Hotspots (Sarah Barnum, New Hampshire Audubon, Concord, NH, USA)
Utilizing a Multi-Technique, Multi-Taxa Approach to Monitoring Wildlife Passageways on the Bennington Bypass in Southern Vermont (Mark Bellis, University of Massachusetts at Amherst, Wilmington, VT, USA)

Ecological Effects of Road Infrastructure on Herpetofauna: Understanding Biology and Increasing Communication are Critical for Wildlife Conservation (Kimberly Andrews, University of Georgia, SREL, Aiken, SC, USA)

Surveying and Modeling Roadkills (Shyh-Chyang Lin, National Kinmen Institute of Technology, Kinmen, Taiwan)

10:00 - 10:30  Break (Salons B & C Foyer)
10:30 - 12:00  CONCURRENT SESSIONS 10A and 10B

Session 10A:  Wildlife & Terrestrial Ecosystems (Large Mammals & Ungulates) (Salon C)

Moderator: Sandra Jacobson, USDA Forest Service

Wildlife Mitigation and Human Safety for Sterling Highway Milepost 58-79, Kenai Peninsula, AK (Richard Ernst, U.S. Fish and Wildlife Service, Soldotna, AK, USA)

Use of Global Positioning Satellite Telemetry to Assess the Effectiveness of Measures to Promote Permeability Across a Highway in Central Arizona (Norris Dodd, Arizona Game and Fish Department, Pinetop, AZ, USA)

Effects of Traffic Volume on Elk Distribution and Crossing Patterns Along an Arizona Highway (Jeff Gagnon, Arizona Game and Fish Department Phoenix, AZ, USA)

Transportation Corridors in Arizona and Mexico and Pronghorn (Norris Dodd, Arizona Game and Fish Department, Phoenix, AZ, USA)

Session 10B:  Wildlife & Terrestrial Ecosystems (Small Mammals & Carnivores) (Salon B)

Moderator: Bill Ruediger, Wildlife Consulting Resources

Management Considerations for Designing Carnivore Highway Crossings (Bill Ruediger, Wildlife Consulting Resources, Missoula, MT, USA)

Patterns of Carnivore Road Casualties in Southern Portugal (Clara Grilo, Faculdade de Ciências da Universidade de Lisboa, Lisboa, Portugal)

Major Roads: A Filter to the Movement of the Squirrel Glider (Petaurus norfolcensis) (Silvana Cesarini, Monash University, Melbourne, Victoria, Australia)

Roads and Desert Small Mammal Communities: Positive Interaction? (Silvia Rosa, Utah State University, Almada, Portugal)

12:00 - 1:30  LUNCHEON and KEYNOTE PRESENTATION (Statehouse Convention Center, Wally Allen Ballroom)

Mr. Jim Martin, Conservation Director, Berkley Conservation Institute, Pure Fishing

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1:30 - 3:00  CONCURRENT SESSIONS 11A, 11B and 11C

Session 11A:  Poster Session (Salon A)

Session 11B:  Integrating Transportation & Conservation Planning (State Wildlife Action Plans) (Salon B)

Moderator: Michael Culp, FHWA Headquarters

Unanimous! What the State Wildlife Action Plans Have to Say About Transportation and Wildlife (Patricia White, Defenders of Wildlife, Washington, DC, USA)

State Wildlife Action Plans: State Wildlife Agencies and Transportation Agencies Working Together to Prevent Wildlife from Becoming Endangered (David Chadwick, Association of Fish and Wildlife Agencies, Washington, DC, USA)

A Multi-scale and Context-Sensitive Statewide Environmental Mitigation Planning Tool for Transportation Projects in California (James Thorne, Information Center for the Environment, University of California at Davis, Davis, CA, USA)

Session 11C:  SCB-North American Section Symposium: Reconciling Conservation Planning and Transportation Planning on a Regional Scale (Salon C)

Moderator: Reed Noss, University of Central Florida/SCB-North American Section

Welcome (Reed Noss, University of Central Florida, USA)

Approach to Integrating Transportation and Conservation Planning: Examples from Florida (Daniel Smith, WTI, Montana State University, USA, and Reed Noss, University of Central Florida, USA)

Effects of Roads and Traffic on Populations of Small Animals: Implications for Transportation Planning (Lenore Fahrig, Carlton University, Canada)

Applications of Local-Scale Research for Planning and Evaluating Measures Designed to Restore Regional Landscape Connectivity (Anthony Clevenger, WTI, Montana State University, USA)


3:00 - 3:30  Break (Salons B & C)

3:30 - 5:00  CONCURRENT SESSIONS 12A, 12B and 12C

Session 12A:  Poster Session (Salon A)

Session 12B:  Ecological Impacts of Other Transportation Modes (Salon B)

Moderator: Vicki Sharpe, Florida DOT

Kennedy Space Center Launch Pad Bird Abatement and Related Roadkill Abatement (Roland Schlierf, NASA Kennedy Space Center, FL, USA)

Quantifying Risk Associated with Potential Bird-Aircraft Collisions (Laurence Schafer, USDA/APHIS Wildlife Services, Olympia, WA, USA)

Trains, Grains and Grizzly Bears: Reducing Wildlife Mortality on Railway Tracks in Banff National Park (Jim Pissot, Defenders of Wildlife Canada, Canmore, Alberta, Canada)

Impacts of Ferry Terminals on Juvenile Salmon Movement along Puget Sound Shorelines (Ronald Thom, PNNL, Sequim, WA, USA)

Session 12C:  SCB-North American Section Symposium (Salon C)

Moderator: Reed Noss, University of Central Florida/SCB-North American Section

Bighorn Sheep and Interstate Highways: Using Genetics to Optimize Connectivity Models for Managing the Landscape of the Future (Clinton W. Epps, J.D. Wehausen, V.C. Bleich, S.G. Torres, and J.S. Brashares, University of California at Berkeley, USA)

Eight Reasons Not to Use GIS Analysis for Corridor Design (Paul Beier-presenter; Dan Majka and Wayne Spencer, Northern Arizona University, USA)

Road Ecology in the Southern Rockies - Science, Policy and Outreach (Julia Kintsch, Southern Rockies Ecosystem Project, USA)

5:00   Adjourn, Dinner (on own)

5:30 - 7:30:  SCB - North American Chapter Business Meeting (Salon C)
Friday, May 25

7:30 - 8:30  Continental Breakfast (Salons B & C Foyer)

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

Session 13A: Integrating Transportation & Conservation Planning (State Case Studies) (Salon A)
Moderator: Gregg Erickson, Caltrans

California’s Integrated Approach to Collaborative Conservation in Transportation Planning (Gregg Erickson, Caltrans, Sacramento, CA, USA)

Linking Statewide Connectivity to Highway Mitigation: Taking the Next Step in Linking Colorado’s Landscapes (Julia Kintsch, Southern Rockies Ecosystem Project Denver, CO, USA)

Wildlife Connectivity Across Utah’s Highways (Paul West, Utah DOT, Salt Lake City, UT, USA)

Patch Occupancy Models and Black Bear Management in the Southeastern Coastal Plain: A Potential Tool? (Jay Clark, University of Tennessee, Knoxville, TN, USA)

Session 13B: Integrating Transportation & Conservation Planning (Habitat Analysis Tools) (Conway)

Moderator: Lynn Malbrough, Arkansas HTD

Use of Habitat Suitability Indices (HSIs) for Evaluating Impacts to, and Assessing Mitigation for, Terrestrial Wildlife Habitats for Transportation Projects (Rick Black, HDR Engineering, Inc., Salt Lake City, UT, USA)

Is Strategic Environmental Assessment an Effective Tool to Conserve Biodiversity Against Transport Infrastructure Development? (Csaba Varga, BirdLife Hungary, Budapest, Hungary)

Effects of Configuration of Road Networks on Landscape Connectivity (Jochen A.G. Jaeger, ETH Zurich, Zurich, Switzerland)

Integrating Habitat Fragmentation Analysis Into Transportation Planning Using the Effective Mesh Size Landscape Metric (Evan Girvetz, Road Ecology Center and Graduate Group in Ecology, University of California at Davis, Davis, CA, USA)

10:00 - 10:30  Break (Salons B & C Foyer)

10:30 - 11:45  Session 14: Public-Private Partnerships Panel (Salons B & C)

Moderator: David Williams, Vice-President/Senior Program Manager, Carter-Burgess

11:45 - 12:00  Session 15: Conference Wrap-Up (Salons B & C)

Moderator: Leroy Irwin, ICOET 2007 Conference Chair; Paul Wagner, Washington State DOT (ICOET 2009 Conference Chair)

12:00  Conference Adjourns