



The Peabody Hotel
Little Rock, Arkansas
May 20-25, 2007

ICOET 2007 Final Program

International Conference on Ecology and Transportation
 c/o Center for Transportation and the Environment
 North Carolina State University
 Box 8601, Raleigh, NC 27695-8601
www.icoet.net

C. Leroy Irwin (Florida DOT, retired), Conference Chair
 Paul Wagner (Washington State DOT), Chair Elect

Legend of ICOET 2007 Activities

= Plenary (19 presentations);
 = Concurrent (86 presentations);
 = Poster (38 presentations);
 = Sponsored Event (5 events)
 = Field Trip (2 full-day trips);
 = Business Meeting (7 meetings)

SUNDAY, MAY 20				
TIME	EVENT	SESSION TYPE	MODERATOR/FACILITATOR	ROOM
02:00 PM	Registration/Check-in opens Speaker Ready Room opens	Registration Speaker Ready Room	CTE CTE	Balcony Hoffman
05:00 PM	Registration/Check-in closes Speaker Ready Room closes	Registration Speaker Ready Room	CTE CTE	Balcony Hoffman
07:30 PM 09:30 PM	ICOET 2007 Steering Committee Business Meeting (By Invitation Only)	Business Meeting (BIO)	CTE/Leroy Irwin, Conference Chair	Upper Pinnacle
MONDAY, MAY 21				
07:00 AM 08:30 AM	TBD – business meetings, networking functions, etc. Speaker Ready Room opens	Business Meeting Speaker Ready Room	CTE CTE	Manning Peck
07:30 AM 08:30 AM	Continental Breakfast	Meal Function	CTE	Salons B&C Foyer
08:30 AM 09:15 AM	Conference Welcome and Opening Remarks <ul style="list-style-type: none"> ▪ Leroy Irwin, Chair, ICOET 2007 ▪ James Martin, Associate Director, CTE ▪ Dan Flowers, Director, Arkansas State Highway and Transportation Department 	Plenary	Leroy Irwin, Conference Chair	Salons B&C
09:15 AM 10:00 AM	Session 1: Update on U.S./International Activities <ul style="list-style-type: none"> ▪ 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 	Plenary	Hans Bekker, IENE	Salons B&C



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10:00 AM 10:30 AM	Break	Meal Function	CTE	Salons B&C Foyer
10:30 AM 12:00 PM	Session 2: Cross-Cutting Session <ul style="list-style-type: none"> ▪ 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) 	Plenary	Debra Nelson, New York State DOT	Salons B&C
12:00 PM 01:30 PM	Lunch (on own)	n/a	n/a	n/a
12:00 PM 01:30 PM	Defenders of Wildlife Workshop (By Invitation Only): "Getting Up To Speed: A Symposium on Wildlife and Transportation for Advocates" 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 all professional sectors and agencies involved in conservation and transportation. Each panelist will share his/her perspective and advise advocates on how to collaborate more effectively with their respective agencies for the greatest conservation gain. Together, participants and panelists will develop recommendations for further improving relationships between agencies and advocates. Box lunches will be provided.	Working Lunch (By Invitation Only)	Trisha White, Defenders of Wildlife	Chicot



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	<p>for Wildlife (John Bissonette, USGS Utah Cooperative Research Unit, Utah State University, Logan, UT, USA)</p> <ul style="list-style-type: none"> ▪ 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? (TaeYoung 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) 			
03:00 PM 03:30 PM	Break	Meal Function	CTE	Salons B&C Foyer
03:30 PM 05:00 PM	<p>Session 4A: Wildlife & Terrestrial Ecosystems (Herpetiles)</p> <ul style="list-style-type: none"> ▪ 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, JÁrvorka, 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) 	Concurrent	Susan Hagood, Humane Society of the United States	Salon A



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TUESDAY, MAY 22				
07:00 AM	TBD – business meetings, networking functions, etc.	Business Meeting	CTE	Manning
08:30 AM	Speaker Ready Room opens	Speaker Ready Room	CTE	Peck
07:30 AM	Continental Breakfast	Meal Function	CTE	Salons B&C
08:30 AM				Foyer
08:30 AM	Session 5A: Integrating Transportation & Conservation Planning (Eco-Logical Approaches) <ul style="list-style-type: none"> 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) 	Concurrent	Mary Gray, FHWA Headquarters	Conway
10:00 AM			Session 5B: Transportation Operations – Part III of III <ul style="list-style-type: none"> 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) 	Tom Linkous, TRB ADC30 Committee Chair



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	<ul style="list-style-type: none"> Canasawacta Creek Watershed Initiative (Mary O'Reilly, New York State DOT Region 9, Binghamton, NY, USA) 			
10:00 AM	Break	Meal Function	CTE	Salons B&C
10:30 AM	Poster Session Set Up		CTE	Foyer Salon A
10:30 AM 12:00 PM	<p>Session 6A: Wildlife & Terrestrial Ecosystems (Partnerships for Success)</p> <ul style="list-style-type: none"> 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) <p>Session 6B: Fisheries & Aquatic Ecosystems--Part I of II</p> <ul style="list-style-type: none"> 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) 	Concurrent	Chris Servheen, U.S. Fish and Wildlife Service	Conway
			Ann Campbell, EPA Headquarters	Arkansas Ballroom



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	<ul style="list-style-type: none"> 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 PM 01:30 PM	<p>FHWA Environmental Excellence Awards Luncheon</p> <ul style="list-style-type: none"> Opening Remarks: Sandy Otto, Division Administrator, FHWA-Arkansas Division Presenting the Awards: Richard Capka, FHWA Administrator Gloria Shepherd, FHWA Associate Administrator for Planning, Environment, and Realty Special Award Presentation to Little Rock Mayor Mark Stodola (Preserve America Presidential Award) 	Sponsored Event	Carol Adkins, FHWA	Salons B&C
01:30 PM 03:00 PM	<p>Session 7A: Poster Session</p> <ul style="list-style-type: none"> Culvert Retrofit Testing (Ron Thom, Battelle PNNL, Sequim, WA, USA) Long-Term Consequences of Winter Road Management Practices to Water Quality at High-Altitude Lakes Within the Adirondack State Park (New York State) (Tom Langen, Clarkson University, Potsdam, NY, USA) Freshwater Mussel (Mollusca:unionidae) Habitat Variability and Movement Patterns Following Relocation: A Case Study of Potamilus capax (David Baldrige, Arkansas State University, Jonesboro, AR, USA) New International Efforts for Freshwater Research, Education, and Conservation: A Report from the Society for Conservation Biology's Freshwater Working Group (Nathaniel Hitt, Department of Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, VA, USA) Lessons and Experiences from Stream Restoration Project 	Concurrent	CTE	Salon A



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	<p>in the Piedmont of North Carolina (Thomas Barrett, Mulkey Engineers and Consultants, Inc., Raleigh, NC, USA)</p> <ul style="list-style-type: none"> ▪ Road Decommissioning: Minimizing the Adverse Ecological Effects of Roads in European Agricultural Landscapes (Lisa Dolan, University College Cork, Cork City, Cork, Ireland) ▪ Salmon Resource and Sensitive Area Mapping Project: A Model for Integrating a Natural Resource GIS with Transportation Planning and Operations (Robert Carson, Mason, Bruce & Girard, Inc., Portland, OR, USA) ▪ Roadkill and Landscape Scales on the Californian Central Coast (Jordi Puig, University of Navarra, Pamplona, Navarra, Spain) ▪ Making Environmental Sustainability for Transportation Infrastructure a Reality: The Environmental Enhancement Fund in British Columbia (Leonard Sielecki, British Columbia Ministry of Transportation, Victoria, BC, Canada) ▪ GIS-based Identification of Habitat Cores and Corridors for Virginia DOT Project Planning and Environmental Scoping (Bridget Donaldson, Virginia Transportation Research Council, Charlottesville, VA, USA) ▪ Simulation-Optimization Framework to Support Sustainable Watershed Development by Mimicking the Pre-Development Flow Regime (Emily Zechman, North Carolina State University, Raleigh, NC, USA) ▪ Forest Service Back Roads: Utilization of GPS/GIS Technology for Acquiring Road Infrastructure Data in the Ozark-St. Francis National Forests (Benjamin Gentry, Ozark-St. Francis National Forest, Russellville, AR, USA) ▪ Bats and Bridges: Promoting Species Conservation through Early Multi-agency Planning (Zak Toledo, HDR Engineering, Inc., Salem, OR, USA) ▪ Riparian Restoration Plan for Stormwater Flow Control 			
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	<p>Management (Carl Ward, Washington State DOT, Olympia, WA, USA)</p> <ul style="list-style-type: none"> ▪ Summary of the 2006 Linking Conservation and Transportation Workshops (Patricia White, Defenders of Wildlife, Washington, DC, USA) ▪ Wildlife Use of Open and Decommissioned Roads on the Clearwater National Forest, ID (Adam Switalski, Wildlands CPR, Missoula, MT, USA) ▪ 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) <p>Interactive Poster Displays</p> <ul style="list-style-type: none"> ▪ Process Design for Collaboration: An Innovative Approach to Redesigning the Environmental Review Process for Transportation Projects (Tom Crawford, Praxis Northwest, LLC, Olympia, WA, USA) ▪ Web-based Approach to Compliance Reporting for Caltrans (Ivy Edmonds-Hess, Parsons Brinckerhoff, San Francisco, CA, USA) ▪ Efficient Transportation Decision Public Web Site: Bridging the Gap between Transportation Planning and the Public (Ruth Roaza, URS, Tallahassee, FL, USA) 			
<p>01:30 PM 03:00 PM</p>	<p>Session 7B: Fisheries & Aquatic Ecosystems—Part II of II</p> <ul style="list-style-type: none"> ▪ 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 	<p>Concurrent</p>	<p>John Harris, Arkansas HTD</p>	<p>Arkansas Ballroom</p>



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	Conservation Strategy (Andrew Peck, Arkansas State University, Jonesboro, AR, USA) <ul style="list-style-type: none"> 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, Uttaranchal, India) 			
03:00 PM 03:30 PM	Break	Meal Function	CTE	Salons B&C Foyer
03:30 PM 05:00 PM	Session 8A: Poster Session (cont'd)	Concurrent	CTE	Salon A
03:30 PM 05:00 PM	Session 8B: Integrating Transportation & Conservation Planning (Urban Areas) <ul style="list-style-type: none"> 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) 	Concurrent	Randal Looney, FHWA-Arkansas Division	Conway
05:00 PM	Day Two Sessions Adjourn/Speaker Ready Room Closes Dinner on own			
07:00 PM	TRB Committee on Ecology and Transportation Meeting (By Invitation Only)	Business Meeting (BIO)	CTE/TRB ADC30 Committee (Tom Linkous, ADC30 Chair)	Arkansas Ballroom
07:00 PM	Partners in Amphibian and Reptile Conservation (PARC) Roads Task Force Meeting (By Invitation Only)	Business Meeting (BIO)	CTE/PARC (Kimberly Andrews, The University of Georgia)	Manning



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WEDNESDAY, MAY 23				
07:00 AM	TBD – business meetings, networking functions, etc.	Business Meeting	CTE	Manning
08:30 AM	Speaker Ready Room opens	Speaker Ready Room	CTE	Peck
07:00 AM	Muffin/Coffee To-Go Station	n/a	n/a	Salons A&B
08:00 AM	Pick up box lunches			Foyer
08:00 AM 05:00 PM	FIELD TRIPS (FULL-DAY SCHEDULE) Field Trip Option 1: White River Bridge Replacement, Clarendon, AR The tour buses will depart from the hotel for Clarendon, AR, to view the project area of a bridge replacement for an historic bridge spanning the White River. The bridge is adjacent to two National Wildlife Refuges (NWR): Cache River NWR and White River NWR. Cache River NWR is the location of the rediscovery of the Ivory-Billed Woodpecker, previously thought to be extinct. Ivory-Billed Woodpecker habitat survey protocols were developed, a field survey was conducted, and an endangered mussel species survey was also conducted in the White River, both as part of Endangered Species Act Section 7 consultation for the project. Extensive 3-D flow velocity modeling was conducted by the USGS using several bridge length and location scenarios to determine effects on the flow patterns of the White River through the refuges at flood stages, and a wetlands mitigation bank was established by the Arkansas Highway and Transportation Department in advance of construction. A presentation on the project will be conducted at the White River NWR visitor center prior to undertaking a tour of the refuge. Field Trip Option 2: Rixey Bayou Wetlands Mitigation Area and Fourche	Field Trips Special thanks to Carter-Burgess Little Rock for providing snack refreshments for the trips.	CTE/Arkansas State HTD (Lynn Malbrough, AHTD)	Off Site



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	<p>Creek Watershed Restoration Project/Little Rock Audubon Nature Center</p> <p>The 235-acre Rixey Bayou wetlands mitigation area was developed in the early 1990s by Arkansas HTD to mitigate unavoidable wetlands impacts associated with the construction of the Northbelt Freeway and future projects in the Central Arkansas area. Just minutes from The Peabody Hotel, the Rixey Bayou tour will focus on the selection of this property by AHTD as a mitigation area, wetland creation and enhancement, ongoing maintenance, wildlife habitat protection and creation, and wildlife crossings and connectivity.</p> <p>The second portion of the field trip will focus on Audubon Arkansas and its efforts to protect and restore one of the nation's largest urban wetlands: Fourche Creek. Fourche Creek drains 108,000 acres of Little Rock and surrounding areas. Its meandering channel braids and connects numerous wetlands, the largest being more than 2,500 acres. Audubon Arkansas is working in partnership with the City of Little Rock to develop the Little Rock Audubon Center in Southeast Little Rock. The center will serve the greater Little Rock area, with a targeted educational focus on children attending the 50 schools within 15 minutes of the site. Acreage surrounding the center includes both the city-owned Fourche Creek wetlands and the unique soils and plants of Granite Mountain in adjacent Gillam Park. The 2,000 acres available for use by the center offer a vast and richly diverse "lab" for young people to learn about conservation, restoration, wildlife and plants. Trails designed for a variety of learning experiences will surround the Center.</p> <p>The last portion of the field trip will focus on the wetland and floodplain mitigation developed as part of the development of</p>			
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	the Pine Bluff Expressway. This will include a field tour of and a brief presentation on the mitigation areas and a visit to the Arkansas Game and Fish Commission's Nature Center located in Pine Bluff. The Nature Center will serve as the presentation site as well as the lunch stop location for the tour group.			
05:00 PM	Day Three Fieldtrips adjourn; Speaker Ready Room closes			
06:00 PM 09:00 PM	Little Rock Barbecue	Sponsored by: HDR Engineering, Inc., along with Garver Engineers and Historic Preservation Associates	CTE	Museum of Discovery
THURSDAY, MAY 24				
07:00 AM 08:30 AM	SCB Board Meeting (By Invitation Only) California Road Ecology Workshop (By Invitation Only): Exploring Approaches for Climate Change Considerations in California's Evolving Environment: A Workshop for Exchanging Ideas on Natural Resource Management Strategies and Transportation Business Practices in the New Era of Climate Change Policy Speaker Ready Room opens	Business Meeting (BIO) Business Meeting (BIO) Speaker Ready Room	CTE/SCB (Reed Noss, SCB-North American Section) CTE/UC-Davis (Katie Benouar, UC-Davis Road Ecology Center) CTE	Manning Lafayette Peck
07:30 AM 08:30 AM	Continental Breakfast	Meal Function	CTE	Salons B&C Foyer
08:30 AM 10:00 AM	Session 9A: Wildlife & Terrestrial Ecosystems (Large Mammals & Ungulates) <ul style="list-style-type: none"> 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, Tecsub Inc., Quebec City, Quebec, Canada) Using Site-Level Factors to Model Areas at High Risk of 	Concurrent	Hans Bekker, IENE/Ministry of Transport and Water Management, The Netherlands	Salon C



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	<p>Deer-Vehicle Collisions on Arkansas Highways (Philip Tappe, University of Arkansas at Monticello, Monticello, AR, USA)</p> <ul style="list-style-type: none"> Behavioral Responses of White-Tailed Deer to Vehicle-Mounted, Sound-Producing Devices (Sharon Valitzski, Warnell School of Forestry and Natural Resources, The 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) <p>Session 9B: Wildlife & Terrestrial Ecosystems (Multispecies Approaches)</p> <ul style="list-style-type: none"> 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) 		Melinda Trask, Oregon DOT	Salon B
10:00 AM	Break	Meal Function	CTE	Salons B&C
10:30 AM	Poster Session Set Up		CTE	Foyer Salon A
10:30 AM 12:00 PM	<p>Session 10A: Wildlife & Terrestrial Ecosystems (Large Mammals & Ungulates)</p> <ul style="list-style-type: none"> Wildlife Mitigation and Human Safety for Sterling Highway Milepost 58-79, Kenai Peninsula, AK (Richard Ernst, U.S. 	Concurrent	Sandra Jacobson, USDA Forest Service	Salon C



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	<p>Fish and Wildlife Service, Soldotna, AK, USA)</p> <ul style="list-style-type: none"> ▪ Use of Global Positioning System 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: Case Studies (Norris Dodd, Arizona Game and Fish Department, Phoenix, AZ, USA) <p>Session 10B: Wildlife & Terrestrial Ecosystems (Small Mammals & Carnivores)</p> <ul style="list-style-type: none"> ▪ 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 (<i>Petaurus norfolcensis</i>) (Silvana Cesarini, Monash University, Melbourne, Victoria, Australia) ▪ Roads and Desert Small Mammal Communities: Positive Interaction? (Silvia Rosa, Utah State University, Almadá, Portugal) 		<p>Bill Ruediger, Wildlife Consulting Resources</p>	<p>Salon B</p>
<p>12:00 PM 01:30 PM</p>	<p>Keynote Luncheon: “Leadership: A Tale of Six Mentors” Mr. Jim Martin, Conservation Director, Berkley Conservation Institute, Pure Fishing Mr. Martin will present poignant stories of leadership demonstrated by six great leaders in the natural resources field. The stories demonstrate the key ingredients of the “Work Magic” ethic in contrast to the “just work” mentality. This is Mr. Martin’s most requested talk across the country</p>	<p>Sponsored by Electrobraid Fence, Inc.; EMS Scientists, Engineers, Planners, Inc.; Engineering Compliance and Construction, Inc.; Michael Baker Jr., Inc.; Mulkey Engineers and Consultants, Inc.; Parsons; PBS&J; and RPM</p>	<p>Lynn Malbrough, Arkansas HTD</p>	<p>Statehouse Conv. Ctr.</p>



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	and highlights principles of leadership everyone can use to improve effectiveness and enjoyment at work and in daily life.	EcoSystems, LLC		
01:30 PM 03:00 PM	<p>Session 11A: Poster Session</p> <ul style="list-style-type: none"> ▪ Relating Vehicle-Wildlife Crash Rates to Roadway Improvements (Rhonda Young, University of Wyoming, Laramie, WY, USA) ▪ Validation of a Citizen-Science Highway Wildlife Monitoring Program (Kylie Paul, University of Montana, Missoula, MT, USA) ▪ Summary of Strategic Agenda for Deer-Vehicle Crash Reduction: Data Collection, Research, Funding, Partnerships, and Technology Transfer (Keith Knapp, Texas Transportation Institute, College Station, TX, USA) ▪ Effectiveness of Black Bear Crossings on I-26 in Madison County, North Carolina (Elizabeth Jones, North Carolina State University, Raleigh, NC, USA) ▪ Limited Applications of Wildlife-Vehicle Collision Analyses for Transportation Planning and Mitigation Efforts Due to Spatial Inaccuracy (Kari Gunson, College of Environmental Studies and Forestry, Baldwinsville, NY, USA) ▪ Overview of Recent Deer-Vehicle Collision Research in Arkansas (Philip Tappe, University of Arkansas at Monticello, Monticello, AR, USA) ▪ Highway Median Impacts on Wildlife Movement and Mortality (Angela Kociolek, Western Transportation Institute, Montana State University, Bozeman, MT, USA) ▪ Assessment of Field Method Efficacy to Monitor Wildlife Presence on Interstate 70 at Vail Pass (Paige Bonaker, Environmental Studies Program, University of Montana, Missoula, MT, USA) ▪ Alternative to the Openness Ratio for Wildlife Crossing 	Concurrent	CTE	Salon A



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	<p>Structures Using Structure Physical Attributes and Behavioral Implications of Deer Vision and Hearing Capabilities (Sandra Jacobson, USDA Forest Service, Arcata, CA, USA)</p> <ul style="list-style-type: none"> ▪ Effects of a Purpose-Built Underpass on Wildlife Activity and Traffic-Related Mortality in Southern California (David Elliott, California State at Fullerton, Fullerton, CA, USA) ▪ Effects of US 1 Highway Improvements on Florida Key Deer Mortality (Israel Parker, Texas A&M University, College Station, TX, USA) ▪ Evaluating the Conservation Benefits of Wildlife Crossing Structures for Grizzly and Black Bear Populations in Banff National Park Using Noninvasive Genetic Sampling (Michael Sawaya, Western Transportation Institute, Montana State University, Bozeman, MT, USA) ▪ Review of the Broad Effects Generated by Roads on Herpetofauna (Denim Jochimsen, School of Biological Sciences, Washington State University, Pullman, WA, USA) ▪ On the Road with Herps: The Importance of Asking for Directions (Kimberly Andrews, University of Georgia, SREL, Aiken, SC, USA) ▪ Assessing the Stone Marten's Patch Occupancy in Fragmented Landscapes and Its Relation to Road-Killing Occurrences (Fernando Ascensao, Faculdade de Ciencias da Universidade de Lisboa, Lisboa, Portugal) <p>Interactive Poster Displays</p> <ul style="list-style-type: none"> ▪ Development of a Bald Eagle Habitat Assessment Tool and Its Application in Highway Planning (James Hatchitt, ARMASI Inc., Gainesville, FL, USA) ▪ Analytical Framework for Wildlife Crossing Policy in California (James Quinn, University of California at Davis, Davis, CA, USA) 			
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	<ul style="list-style-type: none"> Pre-assessment of Wildlife Movement Patterns in a Forested Habitat Prior to Highway Development – Prioritizing Methods for Data Collection to Couple Local and Landscape Information for the Development of Statistical Models (Kerry R. Foresman and Michael Krebs, The University of Montana, Missoula, MT, USA) 			
01:30 PM 03:00 PM	<p>Session 11B: Integrating Transportation & Conservation Planning (State Wildlife Action Plans)</p> <ul style="list-style-type: none"> 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) Using Tools that Support Decision-Making Toward Multiple Benefits in Transportation and Conservation (Shara Howie, NatureServe, Boulder, CO, USA) 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) 	Concurrent	Michael Culp, FHWA Headquarters	Salon B
01:30 PM 03:00 PM	<p>Session 11C: SCB-North American Section Symposium on Reconciling Conservation Planning and Transportation Planning on a Regional Scale</p> <ul style="list-style-type: none"> 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) 	Concurrent	Reed Noss, University of Central Florida/SCB-North American Section	Salon C



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	<ul style="list-style-type: none"> ▪ 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) ▪ Effects of roads on carnivore behavior and ecology in southern California: movements, mortality, and gene flow. Seth Riley, R. M. Sauvajot, J. P. Pollinger, E. C. York, S. Ng, and R. K. Wayne (UCLA Department of Ecology and Evolutionary Biology, USA) 			
03:00 PM 03:30 PM	Break	n/a	n/a	Salons B&C Foyer
03:30 PM 05:00 PM	Session 12A: Poster Session (cont'd)	Concurrent	CTE	Salon A
03:30 PM 05:00 PM	Session 12B: Ecological Impacts of Other Transportation Modes <ul style="list-style-type: none"> ▪ 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, PNPL, Sequim, WA, USA) 	Concurrent	Vicki Sharpe, Florida DOT	Salon B



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03:30 PM 05:00 PM	Session 12C: SCB-North American Section Symposium on Reconciling Conservation Planning and Transportation Planning on a Regional Scale <ul style="list-style-type: none"> ▪ 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) 	Concurrent	Reed Noss, University of Central Florida/SCB-North American Section	Salon C
05:00 PM	Day Four Sessions adjourn Exhibit break down. Speaker Ready Room closes. Dinner on own.			
05:30 PM 07:00 PM	SCB-North American Chapter Business Meeting	Business Meeting	CTE/SCB (Reed Noss, SCB)	Salon C
FRIDAY, MAY 25				
07:00 AM	TBD – business meetings, networking functions, etc.	Business Meeting	CTE	Manning Peck
08:30 AM	Speaker Ready Room opens	Speaker Ready Room	CTE	
07:30 AM 08:30 AM	Continental Breakfast	Meal Function	CTE	Salons B&C Foyer
08:30 AM 10:00 AM	Session 13A: Integrating Transportation & Conservation Planning (State Case Studies) <ul style="list-style-type: none"> ▪ 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) 	Concurrent	Gregg Erickson, Caltrans	Salon A



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	<ul style="list-style-type: none"> ▪ 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) <p>Session 13B: Integrating Transportation & Conservation Planning (Habitat Analysis Tools)</p> <ul style="list-style-type: none"> ▪ 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) 		Lynn Malbrough, Arkansas HTD	Conway
10:00 AM 10:30 AM	Break	Meal Function	CTE	Salons B&C Foyer
10:30 AM 11:45 AM	<p>Session 14: Environmental Considerations in Public-Private Partnerships (PPPs)</p> <ul style="list-style-type: none"> ▪ Randy Blankenhorn, Executive Director, Chicago Metropolitan Agency for Planning Highly respected by the FWS as the leading planner for one of the largest U.S. metropolitan areas, Mr. 	Plenary	David Williams, Vice President/ Senior Program Manager, Carter-Burgess	Salons B&C



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	<p>Blankenhorn will describe his philosophy and experiences, including how to manage traffic congestion, from over two decades of partnering with Federal, state and local agencies. He will describe the potential roles that PPP's can play now and in the future. CMAP is a new regional agency created by merging metropolitan Chicago's previously separate organizations for land-use and transportation planning.</p> <ul style="list-style-type: none">▪ Bruce A. Stein, Vice President and Chief Scientist, NatureServe Dr. Stein will share his organization's experience in incorporating ecological considerations into transportation, infrastructure planning, and resource management efforts. NatureServe coordinates a nationwide public-private partnership that provides scientific information and technology tools at local, regional, and national scales. These information products and services are designed to help agencies and private-sector industries not only meet legal requirements, but to go beyond compliance and promote positive conservation outcomes. In particular, decision support tools, such as NatureServe Vista software, can provide agencies and private investors with a defensible and transparent means to understand ecological values and reduce environmental/project risks.▪ David Greenblatt, Analyst, Living Cities Program, Environmental Defense Mr. Greenblatt will discuss why a public-private partnership on a toll road is not necessarily a good or bad proposition. Well designed PPP deals have the potential to save motorists time, raise revenue, boost transit choices, and curb fuel use and emissions. The flip side is that PPPs can also spur pollution, fragment the transportation network and facilitate sprawl for years to come. The final outcomes			
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	of a PPP depend, in large part, on what a public agency is contracting for. Is the goal simply to increase short-term cash flow? Or is it to create better, more sustainable communities for all? Or some combination thereof?			
11:45 AM 12:00 PM	Session 15: Conference Wrap-Up <ul style="list-style-type: none"> ▪ Session Highlights ▪ Local Host Recognition ▪ ICOET 2009 Announcement 	Plenary	Leroy Irwin, Conference Chair Paul Wagner, Washington State DOT (2009 Conference Chair)	Salons B&C
12:00 PM	ICOET 2007 Adjourns			