

September 13-17, 2009 • Duluth Entertainment Convention Center • Duluth, Minnesota

Final Conference Program Agenda

Updated September 9, 2009

NOTE TO PARTICIPANTS: This is the final agenda as published in the conference program booklet. Any changes made after the above date will be announced at conference and / or included as an addendum in your registration packets. We look forward to seeing you in Duluth!

SPECIAL INTEREST SESSIONS: Technical sessions which feature topics of special interest are noted by the following symbols:





Birds



Herpetofauna



Engineering/ Facility Design



Policy and Process

TIME	SUNDAY, SEPTEMBER 13, 2009
3:00 PM – 7:00 PM	Conference Registration and Check-in open Speaker Ready Room open (Board Room)
5:00 PM – 7:00 PM	ICOET Steering Committee Business Meeting (by invitation) (St. Louis River Room)
7:00 PM – 8:15 PM	Division Street Documentary Film Screening (Lake Superior Ballroom L) Moderator: Trisha White, Habitat & Highways Campaign Director, Defenders of Wildlife

TIME	MONDAY, SEPTEMBER 14, 2009
7:00 AM – 5:30 PM	Conference Registration and Check-in open Speaker Ready Room open (Board Room)
8:30 AM – 9:30 AM	Conference Welcome and Opening Remarks (Lake Superior Ballroom J) Paul Wagner, Washington State DOT, ICOET 2009 Conference Chair James Martin, PE, Associate Director, Center for Transportation and the Environment Thomas Sorel, Commissioner, Minnesota Department of Transportation Don Ness, Mayor of Duluth
9:30 AM – 10:30 AM	Plenary Session 110: US / International Policy Updates (Lake Superior Ballroom J) Moderator: Thomas Sorel, Commissioner, Minnesota DOT Carol Adkins, Acting Director, Office of Project Development and Environmental Review, FHWA, Washington, DC Lars Nilsson, Environmental Director, National Road Administration, Sweden Thomas Duffus, Upper Midwest Director, The Conservation Fund, Duluth, MN
10:30 AM – 11:00 AM	Break in Sponsors Hall (Lake Superior Ballroom O) Edmund Fitzgerald Exhibit Hall open for Poster Set-up until 5:30 PM



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TIME	MONDAY, SEPTEMBER 14, 2009
11:00 AM – 12:30 PM	 Plenary Session 120: Moving Toward Sustainability – Case Studies in Integrating Land Use, Conservation, Transportation, and Community Planning (Lake Superior Ballroom J) Moderator: Debra Nelson, Water and Ecosystems Section Manager, New York State DOT Integrating Conservation and Long-Range Transportation Planning Using a Strategic Assessment Framework (Craig Casper, Pikes Peak Area COG, Colorado Springs, CO, USA) Looking to the Future with Retrofit Options from Lessons Learned (Bruce Eilerts, Arizona DOT Office of Environmental Services, Phoenix, AZ, USA) Long Point World Biosphere Reserve Causeway Improvement Plan, Port Rowan, Ontario, Canada: Benefits for Wildlife Movement, Species at Risk, Traffic, and Pedestrian Safety (Geoffrey Gartshore, Ecoplans Limited, Ontario, Canada)
12:30 PM – 2:00 PM	FHWA Environmental Excellence Awards Luncheon (Lake Superior Ballroom K) Thanks to our official sponsor Federal Highway Administration!
2:00 PM – 3:30 PM	CONCURRENT SESSIONS Session 131: Climate Change – Understanding the Impacts and Developing Mitigation Strategies (Lake Superior Ballroom J) Moderator: Shari Schaftlein, Office of Project Development and Environmental Review, FHWA, Washington, DC How will Climate Change affect the Design and Management of the Highways Agency Soft Estate? (Lucia Collinwood, Parsons Brinckerhoff, Cardiff, Wales) The FHWA Carbon Sequestration Pilot Program: Economics, Environment and Policy (Stephen Earsom, FHWA, Washington DC, USA) Potential Impacts of Climate Change on Urban Flooding: Implications for Transportation Infrastructure and Travel Disruption (Heejun Chang, Portland State University, Portland, OR, USA) Washington State Department of Transportation Interim Approach to Project-Level Greenhouse Gas and Climate Change Evaluations For Transportation Projects (Tim Sexton, Washington State DOT, Seattle, WA, USA) Session 132: Citizen Science – Effective Strategies and Stakeholder Involvement (Lake Superior Ballroom L) Moderator: Susan Hagood, Wildlife Issues Specialist, Humane Society of the United States, Washington, DC Road Watch in Pass: Web-based Citizen Involvement in Wildlife Data Collection (Tracy Lee and Danah Duke, Miistakis Institute for the Rockies, Alberta, Canada) Wildlife Tunnels Under a Busy, Suburban Boston Roadway (Lydia Rogers, Wildlife Passages Task Force, Concord, MA, USA) Motorists as Citizen Science Represent Wildlife Activity Along Highways? Validating a Monitoring Program (Kylie Paul, University of Montana, Missoula, MT, USA)
3:30 PM – 4:00 PM	Break in Sponsors Hall (Lake Superior Ballroom O) Edmund Fitzgerald Exhibit Hall open for Poster Set-up until 5:30 PM



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TIME	MONDAY, SEPTEMBER 14, 2009
4:00 PM – 5:30 PM	CONCURRENT SESSIONS Session 141: Adapting Agency Relationships in a Changing Regulatory Environment (Lake Superior Ballroom J) Moderator: Derrell Turner, Administrator, FHWA Minnesota Division Interagency Partnering for the Development of Stream Crossing Standards in New York State (Brandon Greco and Debra Nelson, New York State DOT, Albany, NY, USA) Endangered Species Act Section 7 Consultation and the US Fish And Wildlife Service's Information, Planning, and Consultation (IPAC) System (Michael Horton, US Fish and Wildlife Service, Arlington, VA, USA) Intercounty Connector (ICC): Environmental Compliance Management Using Integrated Technologies to Provide Context Sensitive Solutions (Holly Shipley, KCl Technologies, Inc., Sparks, MD, USA) Session 142: Technical Tools for Integrating Ecological Considerations in Planning and Construction Moderator: Cameron Bump, Transportation Liaison, Wisconsin Department of Natural Resources Traffic Volume as a Primary Road Characteristic Impacting Wildlife: A Model for Land Use and Transportation Planning (Barbara Charry, Maine Audubon, Falmouth, ME, USA) Integrating Environmental Concerns with the Planning and Construction of the South Extension of Interstate 355 into Will County, Illinois (Angela LaPorte and Brian Smith, AECOM, Chicago, IL, USA) Ecological Effects of Road Construction on Regional Ecosystem (Shyh-Chyang Lin, National Kinmen Institute of Technology, Kinmen, Taiwan) Incorporating Road-Mortality Hotspot Modeling and Connectivity Analyses into Road Mitigation Planning in Ontario, Canada (Kari Gunson, Ontario Road Ecology Group, Ontario, Canada) Session 143: Advance Mitigation and Mitigation Banking Programs (Lake Superior Ballroom L) Session 143: Advance Mitigation Planning: A Pilot Study Integrating Multi-agency Mitigation Needs and Actions Within a Comprehensive Ecological Framework (Patrick Huber, University of California, Davis, CA, USA) Status of Mitigation Banking for Transportation in the Upper Midwest (Thomas Mings, US Army Corps of Engin
5:30 PM	Monday Sessions Adjourn Edmund Fitzgerald Exhibit Hall closes US Fish and Wildlife Service Transportation Biologists Peer Exchange Meeting (by invitation) (St. Louis River Room)
6:00 PM – 8:00 PM	Welcome Reception and Cash Bar at Great Lakes Aquarium Thanks to our Silver co-sponsor ARCADIS!



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TIME	TUESDAY, SEPTEMBER 15, 2009
7:30 AM – 5:30 PM	Conference Registration and Check-in open Speaker Ready Room open (Board Room) Edmund Fitzgerald Exhibit Hall open for Poster Set-up until 3:30 PM
8:30 AM – 10:00 AM	CONCURRENT SESSIONS Session 211: Integrating Ecology and Transportation Planning at the Landscape Scale (Lake Superior Ballroom J) Moderator: Mary Gray, Environmental Protection Specialist, FHWA, Olympia, WA • California Essential Habitat Connectivity Planning (Amy Pettler, Caltrans, Sacramento, CA, USA) • Setablishing the Legacy Nature Preserve through Collaborative Planning and Adaptive Management (Michael Perkins, HDR, Inc., Salt Lake City, UT, USA) • Nebraska Department of Road's Plan for the Roadside Environment (Arthur Thompson, Nebraska Department of Roads, Lincoln, NE, USA) • Similar Impacts, Similar Solutions? The Effects of Transport Infrastructure on Outdoor Recreation and Wildlife (Jan Olof Helldin, Swedish Biodiversity Centre, SLU, Uppsala, Sweden) Session 212: Ecological Considerations for Planning and Designing Bridges (French River Room) Moderator: Peter Leete, Hydrologist, Minnesota Department of Natural Resources • Road Infrastructure and Stream Habitat Connectivity: Research Tools to Aid Management and Conservation Plans in a Changing Environment (Keith Nislow, US Forest Service Northern Research Station, Amherst, MA, USA) • MassHighway Guidance Handbook: Design of Bridges and Culverts for Wildlife Passage (David Nyman, Comprehensive Environmental Inc., Millord, MA, USA) • Do Bridges Affect Migrating Juvenile Salmon: Tracking Juvenile Salmon and Predator Fish Movements and Habitat Use Near the SR 520 Bridge in Lake Washington (Philip Bloch, Washington State DOT, Seattle, WA, USA) • Are Non-Wildlife Underpasses Effective Passages for Wildlife? (Andreas Seiler, Swedish University of Agricultural Sciences, Uppsala, Sweden) Session 213: Wildlife Habitat Connectivity – Innovative Tools and Techniques • Are We There Yet? A Case for Spatially Explicit Linkage Modeling for Integrative Conservation Planning (Julia Kintsch, ECOresolutions, LLC, Denver, CO, USA) • Monitoring Wildlife Overpass Use by Amphibians – Do Artificially Maintained Humid Conditions Enhance Crossing Rates? (Edgar V
10:00 AM – 10:30 AM	Break in Sponsors Hall (Lake Superior Ballroom O) Edmund Fitzgerald Exhibit Hall open for Poster Preview and Set-up until 3:30 PM



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TIME	TUESDAY, SEPTEMBER 15, 2009
10:30 AM – 12 NOON	CONCURRENT SESSIONS Session 221: Wildlife Habitat Connectivity – Planning and Design Aborator: Jennie Ross, Environmental Assessment Unit Chief, Minnesota DOT Idaho Statewide Wildlife / Transportation Database (Brent Inghram, FHWA Idaho Division, Boise, ID, and Gregg Servheen, Idaho Department of Fish and Game, Boise, ID, USA) Judd Road Connector: Lessons Learned in Ecological Mitigation – Wildlife Crossings, Habitat Preservation, Wetlands and More (EG Frantz, New York State DOT, Utica, NY, USA) Avian Protection Plan for the Nebraska Department of Roads (Eric Zach, Nebraska Department of Roads, Lincoln, NE, and Dionne Gioia, US Dept of Agriculture APHIS Wildlife Services, Union, NE, USA) How Do Major Roads Affect Barn Owls? Distribution, Space Use, Food Source and Mortality (Joana Sousa, Centro Biologia Ambiental, Lisboa, Portugal) Session 222: Wetland Mitigation and Ecological Considerations for Stormwater Management (French River Room) Moderator: Wesley Saunders-Pearce, MS4 Specialist, Minnesota DOT The Proposed I-99 Crossing of the Ouachita River and Associated Wetlands in Southern Arkansas: A Comparison of the Charleston Method vs. West Gulf Coastal Plains Hydrogeomorphic Method to Determine Mitigation Requirements (Henry W. Langston, Arkansas Highway and Transportation Department, Little Rock, AR, USA) Wetland Mitigation in Abandoned Gravel Pits – Creating Fresh Meadow and Shrub Swamp (Kurt Johnson, University of Minnesota Natural Resocial Rope Bridge to Cross a Major Highway (Rodney van der Ree, Australian Research Centre for Urban Ecology, Victoria, Australia) Oregon DOT Stormwater Treatment and Management Program: A Framework for Adapting to Changing Pollutants, Regulations, and Practices (Zak Toledo, HDR, Inc., Salem, OR, USA) Using Global Positioning System Technology to D
12 NOON – 1:30 PM	Keynote Speaker Luncheon (Lake Superior Ballroom K) Rick Ridgeway, Vice President of Environmental Initiatives, Patagonia, Inc. Thanks to our Bronze co-sponsors Connectivity for Wildlife LLC, ElectroBraid Fence, and Great Lakes Maritime Research Institute!



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TIME	TUESDAY, SEPTEMBER 15, 2009
1:30 PM – 3:00 PM	CONCURRENT SESSIONS Session 231: Mitigating Highway Impacts on Ecosystems (Lake Superior Ballroom J) Moderator: David Weirens, Land and Water Section Manager, Minnesota Board of Water and Soil Resources Evaluation of a Rapid Assessment Protocol to Assess Road-Stream Crossings for Aquatic Organism Passage (Scott Jackson, UMass Department of Natural Resources Conservation, Amherst, MA, USA) Where the River Meets the Road: How Washington State is Providing Habitat while Protecting Highways (Paul J. Wagner, Washington State DOT, Olympia, WA, USA) Effective Mitigation: The Cumulative Impact of Climate Change on Transportation Network and its Implications on Aquatic Biodiversity of Ganges Headwaters, Garhwal Himalayas (Ramesh C. Sharma, Departmental of Environmental Sciences, H.N.B. Garhwal University, Ultarakhand, India) Adapting Relationships for Agencies and Institutions: The I-90 Snoqualmie Pass East Project's Collaborative Approach to Identifying a Preferred Alternative and Mitigation Strategy (Jason Smith, Washington State DOT, Yakima, WA, USA) Session 232: Improving Data Collection and Monitoring Methods (French River Room) Moderator: Leonard Sielecki, Environmental Management Section, University of Victoria, British Columbia, Canada Reducing Road-Based Habitat Fragmentation: An Eastern Box Turtle (Terrapene c. carolina) Case Study (Susan Hagood, The Humane Society of the US, Washington DC, USA) Re-evaluating the Needs for Animal Passages in Israel: Towards a Long-term Monitoring Scheme (Tamar Achiron-Frumkin, Ecological and Environmental Advisors, Israel) Restoring Ecological Networks Across Transport Corridors in Bulgaria (Edgar Van der Grift and Vanya Simeonova, Alterra Wageningen UR, Gelderland, The Netherlands) Development and Utilization of a Regional Invasive Plant Species Database at the New York State Department of Transportation (Christine Colley, New York State DOT, Buffalo, NY, USA) Session 233: Wildlife-Vehicle Collisions – Effective Mitigation Strategies (Lake Superior Ballroom L) W
3:00 PM – 3:30 PM	Break in Posters Hall (Edmund Fitzgerald Exhibit Hall)
3:30 PM – 5:30 PM	Session 240: Poster Presentations (Edmund Fitzgerald Exhibit Hall) 50 posters showcasing innovative projects, applications, and research in progress will be on display. Authors representing 10 countries will be available to discuss their work with fellow participants.



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TIME	TUESDAY, SEPTEMBER 15, 2009
5:30 PM	Tuesday Sessions Adjourn Dinner (on your own)
	BUSINESS MEETINGS These meetings are open to all ICOET participants unless noted as (by invitation).
	Deer-Vehicle Crash Information and Research Center Technical Advisory Committee (Gooseberry Falls Room 1)
5:00 PM	FHWA Transportation Liaison Peer Exchange Workshop (by invitation) (Gooseberry Falls Room 3)
	TransWild Alliance Meeting hosted by Defenders of Wildlife (by invitation) (Comfort Suites Conference Room)
7.00 DM	TRB ADC30 Committee on Ecology and Transportation (St. Louis River Room)
7:00 PM	TRB AFB40 Committee on Landscape and Environmental Design (Split Rock Room 1)

TIME	WEDNESDAY, SEPTEMBER 16, 2009
7:30 AM – 5:00 PM	Conference Registration and Check-in open Speaker Ready Room open (Board Room) Edmund Fitzgerald Exhibit Hall open for removing Poster displays until 12:00 Noon
8:00 AM – 9:00 AM	Plenary Session 310: Field Trips Overview by Minnesota Department of Transportation (Lake Superior Ballroom J) Moderator: Frank Pafko, Environmental Services Director, Minnesota DOT Dwayne Stenlund, Erosion Control Specialist, Minnesota DOT Scott Bradley, Director of Context Sensitive Solutions, Minnesota DOT Paul Sundberg, Manager, Gooseberry Falls State Park, Minnesota Department of Natural Resources
9:00 AM – 9:30 AM	Pick up Box Lunches and Board Buses (Atrium Lobby)
9:30 AM – 4:00 PM	Field Trips (Atrium Lobby – buses depart promptly at 9:30 AM) Trip 1: North Shore National Scenic Byway Trip 2: Aquatic Habitat Reconstruction Tour
6:00 PM – 9:00 PM	Dinner and Cash Bar at Grandma's Sports Garden Thanks to our Gold co-sponsor HDR Engineering, Inc.! Please Note: Your ICOET name tag is required for admission – be sure to wear it!



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TIME	THURSDAY, SEPTEMBER 17, 2009
7:30 AM – 10:30 AM	Conference Registration and Check-in open Speaker Ready Room open (Board Room)
8:30 AM – 10:00 AM	CONCURRENT SESSIONS Session 411: The Economics of Mitigation and Cost-Effective Strategies (Lake Superior Ballroom J) Moderator: Tom Mings, Senior Ecologist, US Army Corps of Engineers Cost Justification and Examples of Cost-Benefit Analyses of Mitigation Measures Aimed at Reducing Collisions with Large Ungulates in the United States and Canada (Marcel Huijser, Western Transportation Institute at Montana State University, Bozeman, MT, USA) An Analysis of the Efficacy and Comparative Costs of Using Flow Devices to Resolve Conflicts with North American Beavers Along Roadways in the Coastal Plain of Virginia (Stephanie Boyles, Christopher Newport University, Portsmouth, VA, USA) Prioritizing Road Crossing Improvement to Restore Stream Connectivity for Stream-Resident Fish (Matthew Diebel, University of Wisconsin, Madison, WI, USA) Session 412: Wildlife Crossings – Location and Design (Lake Superior Ballroom L) Moderator: Scott Bradley, Director of Context Sensitive Solutions, Minnesota DOT Multi-Scale Habitat-Resistance Models for Predicting Road Mortality "Hotspots" for Reptiles and Amphibians (David Patrick, Paul Smith's College, Paul Smiths, NY and Viorel Popescu, University of Maine, Orono, ME, USA) Integrating Ecosystem Needs with Transportation Facility Design: Design Engineering Challenges of the I-90 Snoqualmie Pass East Project (Randall Giles, Washington State DOT, Yakima, WA, USA) A Summary of the Wildlife Linkage and Highway Safety Assessment: A Prioritization and Planning Tool For Western Montana (Elizabeth Williamson and Dylan Taylor, American Wildlands, Bozeman, MT, USA) Using Noninvasive Genetic Sampling Methods to Assess the Value of Wildlife Crossings for Black and Grizzly Bear Populations in Banff National Park, Alberta, Canada (Michael Sawaya, Montana State University, Bozeman, MT, USA)
10:00 AM – 10:30 AM	Break in Sponsors Hall (Lake Superior Ballroom O)



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TIME	THURSDAY, SEPTEMBER 17, 2009
10:30 AM – 12 NOON	CONCURRENT SESSIONS Session 421: Integrating Ecological Considerations into Construction, Operations, and Maintenance (Lake Superior Ballroom L) Moderator: Carmelita Nelson, Roadsides for Wildlife Program Manager, Minnesota Department of Natural Resources The Ecological Implications of Cured-in-Place Pipe Rehabilitation Technology (Bridget Donaldson, Virginia Transportation Research Council, Charlottesville, VA, USA) Managing an Unpredicted and Unexpected Large Scale Amphibian Migration: Applying Hungarian Experience and Knowledge to Protect Western Toads on a British Columbia Highway (Leonard Sielecki, University of Victoria, British Columbia, Canada) Down the Drain: How to Avoid Trapping Amphibians in Road and Sewer Drainage Systems – Designing Fauna Friendly Drainage Systems and Other Protective Measures (Bruno Schelbert, Departement Construction, Traffic and Environment, Aarau, Switzerland) "Sustainable Highway Construction" is NOT an Oxymoron (Gary Demich, H.W. Lochner, Inc., Chicago, IL, USA) Session 422: FHWA's Eco-Logical Program – Case Studies (Lake Superior Ballroom J) Moderator: Carol Adkins, Acting Director, Office of Project Development and Environmental Review,, FHWA, Washington, DC Eco-Logical: An Ecosystem Approach to Developing Transportation Infrastructure Projects in a Changing Environment (Bethaney Bacher-Gresock, FHWA, Washington DC and Julianne Schwarzer, Volpe National Transportation Systems Center, Cambridge, MA, USA) MARC's Eco-Logical Project: A Regional Approach to Linking Environmental and Transportation Planning (Lisa Pool and Tom Jacobs, Mid-America Regional Council, Kansas City, MO, USA) Developing and Piloting an Eco-Logical Approach to Transportation Project Delivery in Montana (Deborah Wambach, Montana DOT, and Scott Jackson, US Fish and Wildlife Service, Helena, MT, USA) Texas Ecological Assessment Protocol (TEAP): Eco-Logical information for Transportation Planning (Sharon Osowski, US Environmental Protection Agency, Dallas, TX, USA)
12 NOON – 12:30 PM	Conference Wrap-up and Closing Remarks (Lake Superior Ballroom J) Paul Wagner, Washington State DOT, ICOET 2009 Conference Chair
12:30 PM	Conference Adjourns FHWA Transportation Liaison Peer Exchange Workshop (by invitation) (St. Louis River Room)
2:00 PM	USDA Forest Service Coordination Meeting (Split Rock Room 1)



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Session 240: Poster Presentations
3:30 PM – 5:30 PM
Edmund Fitzgerald Exhibit Hall

AD - Adapting Relationships for Agencies and Institutions

- AD-01 Wildlife Mortality Surveys on 1014km of Highways in Portugal (2002-2007): Results and Limitations of the Procedures (Clara Grilo, Universidade de Lisboa, Centro de Biologia Ambiental, Dept Biologia Animal, Lisbon, Portugal)
- AD-02 Vegetation Management Memorandum of Understanding between Minnesota Department of Transportation and Fond du Lac Band of Lake Superior Chippewa (Nancy Schuldt, Fond du Lac Band of Lake Superior Chippewa, Cloquet, MN, USA)
- AD-03 Oregon DOT's OTIA III Bridge Program: Five Years of Adapting for Environmental Stewardship (Zak Toledo, HDR, Inc., Salem, OR, USA)

PL - Planning for Change

- PL-01 Fragmentation of China's Landscape by Roads and Urban Areas (*Taian Li, Life Science School, Lanzhou, Gansu Province, PR of China, and Alison Berry, University of California, Davis, CA, USA*)
- PL-02 Integrating Biodiversity and Infrastructure Considerations to Prioritize Transportation Projects in the Taunton River Watershed, Massachusetts (Alison Bowden, The Nature Conservancy in Massachusetts, Boston, MA, USA)
- PL-03 Ecological Survey Approaches in a Changing World (Patricia Cramer, Utah State University, Logan, UT, USA)
- PL-04 New FHWA Manuals for Mitigation Measures Aimed at Reducing Wildlife-Vehicle Collisions and Providing Safe Crossing Opportunities for Wildlife (Marcel Huijser, Western Transportation Institute at Montana State University, Bozeman, MT, USA)
- PL-05 A Conceptual Framework for Assessing Barrier Effects to Wildlife Populations Using Variable Responses to Traffic Volume (Sandra Jacobson, US Forest Service, Pacific Southwest Research Station, Bend, OR, USA)
- PL-06 Peregrine Falcons Utilize a Busy Highway Corridor in East-Central Alaska (W.N. Johnson, US Fish and Wildlife Service, Tok, AK, USA)
- PL-07 Comparing Efforts to Incorporate Green Streets Practices into the Transportation Planning Process in North Carolina (Donald Kostelec, The Louis Berger Group, Inc., Asheville, NC, USA)
- PL-08 Community-based Environmental Planning: Preventing Urban Encroachment on a Lagoon Catchment Area (Erin Roger, University of New South Wales, Sydney, New South Wales, Australia)
- PL-09 Planning for Change: WSDOT's Adaptive Approach to Communicating About the I-90 Snoqualmie Pass East Project with Diverse Groups (Jason Smith, Washington State DOT, Yakima, WA, USA)
- PL-10 New French Environmental Policy and Linear Infrastructures: The Implementation of the National Ecological Network

 The "Green And Blue Belt" (Sabine Bielsa, MEEDDAT SETRA, Bagneux, Paris, France)



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MO – Ecological Considerations for Maintenance and Operations MO-01 Motorways and Bird Traffic Casualties: Carrions Censuses and Scavenging Bias (Eric Guinard, Centre d'Etudes Techniques de l'Equipement du Sud-Ouest, Saint-Medard-En-Jalles, Aquitaine, France) Roadside Verges in Intensive Agrarian Landscapes: A Positive Impact on Biodiversity to be Taken Into Account in MO-02 Roadside Management (Sabine Bielsa, MEEDDAT - SETRA, Bagneux, Paris, France) MO-03 Steep Cut Slope Composting: Field Trials and Evaluation (Robert Ament, Western Transportation Institute at Montana State University, Bozeman, MT, USA) MO-04 Monitoring and Enhancing Wildlife Movement Across Freeways in Urban Southern California (Barbara Marquez and Gregg Erickson, California DOT, Sacramento, CA, and Jeff Sikich, National Park Service, Thousand Oaks, CA, USA) Occurrence of Road and Traffic Associated Heavy Metals in Soil Sediments in southern New Mexico (Kevin Floyd, The MO-05 University of Texas at El Paso, El Paso, TX, USA) MO-06 Inter-Species Associations at Wildlife-Crossing Structures: An Analysis of Long-Term and Daily Patterns of Wildlife Movement along the Trans-Canada Highway, Banff National Park, Alberta (Adam Ford, Banff Wildlife Crossings Project, Banff, Alberta, Canada) MO-07 Evaluation of Mitigation Measures for Highway Bird Road-kill (Yung-Hui Hsu, Institute of Ecology and Evolutionary Biology, Taipei, Taiwan) The Importance of Pre-Construction Data for Planning and Evaluating Wildlife Crossing Structures (Paula MacKay, MO-08 Western Transportation Institute at Montana State University, Ellensburg, WA, USA) MO-09 Do Forest Roads Influence Wildfire Boundary Locations? (Ganapathy Narayanaraj, South Dakota State University, Brookings, SD, USA) MO-10 Effect of the Sampling Effort upon the Richness of Roadkill Species in the south of Brazil (Clarissa A. Rosa and Alex Bager, Universidade Federal de Lavras, Lavras, Minas Gerais, Brazil) MO-11 Structure, Function, and Ecosystem Services of Interstate Forests in Louisville, Kentucky (Tara Trammell, Dept. of Biology, University of Louisville, KY, USA Ecological Considerations for the Management of Non-native Invasive Species during the Maintenance and Operation MO-12 of National Road Schemes in Ireland (Rosalyn Thompson and Lisa Dolan, Environmental Research Institute, University

College Cork, Cork, Ireland)



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ID – Integrating Ecosystem Needs with Transportation Facility Design			
ID-01	The Integration of Ecosystems Needs and Transportation Facility Design – The Irish Historical Context (Lisa Dolan, Environmental Research Institute, University College Cork, Cork, Ireland)		
ID-02	Effect of Culvert Barriers on Topeka Shiner and Other Warm Water Fish Species in South Dakota (Matt Blank, Western Transportation Institute at Montana State University, Bozeman, MT, USA)		
ID-03	The Effectiveness of Vertebrate Passage and Prevention Structures: A Study of Boeckman Road in Wilsonville (Leslie Bliss-Ketchum, Portland State University Environmental Science & Mangement Dept., Portland, OR, USA)		
ID-04	Designing New Highways to Reverse Habitat Connectivity Loss due to Old Highways and Land Use Change: A Case Study in Nayarit, Mexico (Norma Fernández Buces, Grupo SELOME SA de CV Environmental Consultants, México City, México)		
ID-05	Oostvaarderswold Corridor: Designing for Natural Systems Within the Human Matrix (Cynthia Lapp, University of Minnesota, Minneapolis, MN, USA)		
ID-06	Proposed Crossing Design to Achieve Road Permeability for Multiple Species along a Riparian/Upland Corridor in Southern California (Dana Morin, EDAW, Inc., San Diego, CA, USA)		
ID-07	Bolinas Lagoon: An Incremental Improvement (Charles Morton, Caltrans, Oakland, CA, USA)		
ID-08	Stream Simulation: An Ecological Approach to Providing Passage for Aquatic Organisms at Road-Stream Crossings (Interactive Display) (Gregory Napper, US Forest Service, San Dimas, CA, USA)		
ID-09	A Comprehensive Wildlife Crossing Mitigation Approach in Riverside County, California (Brock Ortega, Dudek Engineering + Environmental, Encinitas, CA, USA)		
ID-10	Highways Permeability for Carnivores in Portugal: Water-Effect and Effectiveness of Dry Ledges (Dyana Reto, Universidade de Lisboa, Centro de Biologia Ambiental, Departamento de Biologia Animal, Lisbon, Portugal)		
ID-11	Wildlife-Friendly Erosion Control Matting: The Standard for Vermont (Chris Slesar, Vermont Agency of Transportation, Montpelier, VT, USA)		
ID-12	Getting There: The Role of Wildlife Crossing Structures in Restoring Terrestrial Habitat Connectivity Across Roads (Dawn Tanner, University of Minnesota, St. Paul, MN, USA)		
ID-13	Wildlife Ecology for Dummies: Design Elements of Wildlife Crossing Structures – A Literature Review (Stephen Tonjes, Florida DOT, DeLand, FL, USA)		
ID-14	Permeability of Linear Features to the Movements of Songbirds in an Urban Landscape (Marie Tremblay, University of		

Alberta, Calgary, Alberta, Canada)



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ID-15	Tibetan Antelopes are Behaviorally Adapting to the Qinghai-Tibet Highway and Railway (Yun Wang, China Academy of
	Transportation Sciences, Chaoyang District, Beijing, P.R.China)

ID-16 ODOT's Biology and Wetland Monitoring: An Improved Approach to Data Collection and Reporting (Bob Carson, Mason, Bruce & Girard, Inc., Portland, OR, USA)

TT – Innovative Tools and Techniques

- TT-01 Identifying Wildlife Linkages and Wildlife-Vehicle Collision Hot Spots on Oregon Highways (Bob Carson, Mason, Bruce & Girard, Inc., Portland, OR, USA)
- TT-02 Web-BA: An Innovative Tool for Streamlining Biological Assessments under the Federal Endangered Species Act (Scott Boettcher, Cherry Creek Environmental, Inc., Olympia, WA, USA)
- TT-03 Assessing Mitigation Measures to Reduce Moose-Vehicle Collisions: A Modeling Approach (Paul Grosman, Concordia University, Montreal, Quebec, Canada)
- TT-04 Spatiotemporal Distributions of Wildlife-Vehicle Collisions and their Application for Mitigation Planning (Kari Gunson, EcoKare International, Toronto, Ontario, Canada)
- TT-05 Understanding and Communicating the Indirect Effects of Transportation on Land Use (*Jeff Heilman and Colin McConnaha, Parametrix, Portland, OR, USA*)
- TT-06 Changing Indecision into Action: A Case Study on Successful Interagency Cooperation to Benefit the Natural Environment Interstate 295 / Interstate 76 / NJ Route 42 Interchange, Camden County, NJ (Ileana Ivanciu, Dewberry, Parsippany, NJ, USA)
- TT-07 Developing a Model for Identifying Possible Road-Kill Locations on Highways Using Indicator Species and Limited Wildlife Data. (Parag Khatavkar, International Institute for Geo-Information Science and Earth Observation, Enschede, Overijssel, The Netherlands)
- TT-08 TDOT's Early Environmental Screening Process (Benjamin Richards, Tennessee DOT, Nashville, TN, USA)
- TT-09 Developing a State Wildlife Roadkill Identification Guide (Leonard Sielecki, University of Victoria, Victoria, British Columbia, Canada)