

ICOET 2023 VERMONT CONFERENCE – DRAFT SCHEDULE

9 AM EST = 6 AM PST, 1 pm GMT, 3 PM South Africa, 6:30 PM in India, and 11 PM in Sydney

Abstract numbers in each session are indicated and correspond to the abstracts listed below the schedule.

MONDAY June 5						
Times EST	Session Type					
8:30 AM	Welcome Plenary Session (Chair, Organizer)					
9:20 AM	International and VT Welcomes					
9:50 AM	Plenary Keynote #1					
10:30 AM	Break (10 minutes)					
10:40 AM	Plenary Session (TBD)					
12:10 PM	Local Lunch/Sponsor Meet-up (60 minutes)					
1:10 PM	Session 1 Phish Food for Thought: AOP Funding and Collaboration 44, 62, 140, 234	Session 2 Transportation Ecology: Where Have we Been & Where are we Going?	Session 3 Climate Resiliency: Weathering the Storm 79, 136, 178, 225	Session 4 Reap What you Sow: Verges and Pollinators 66, 130, 156, 160	Panel 1 Approaches to Bats within Transportation Structures	
2:40 PM	Break (20 minutes)					
3:00 PM	Session 5 Vermont's Terrestrial Passage Screening Tool 35, 90, 94, 220	Session 6 Engineering Solutions for Transportation Impacts on Ecology 68, 212, 231, 235	Session 7 Writing the Next Chapter for Crossings and Climate Change 30, 118, 197, 202	Session 8 Pollinating Opportunities in Rights-of-Way 5, 157, 211, 217	Session 9 Bats & Bugs: Roosting & Dispersal 93, 200, 201, 238	
4:30 PM	END OF DAY 1					
TUESDAY June 6						
Times EST	Session Type					
9:00 AM	Day 2 Welcome Plenary Session Orientation					
9:15 AM	Session 10 Staying Current with Aquatic Habitats 57, 71, 82, 109	Session 11 Wildlife Connectivity: Models and Movements 42, 64, 151, 168	Session 12 Where do we go? Traffic, Fencing and Wildlife 19, 222, 233, 236	Session 13 Linear Infrastructure Impacts on Biodiversity in Africa 7, 27, 171, 239	Session 14 I Saw the Sign 100, 101, 103, 223	Lightning Session 1 Aquatic Ecology and Sustainability 11, 31, 85, 146, 177, 182, 186, 214, 218, 226
10:45 AM	Break (15 minutes)					

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11:00 AM	Session 15 Don't Squish the Squamata: Road Ecology and Herps 4, 37, 133, 165	Session 16 Automated and AI Processing for Safety and Ecology 53, 104, 129, 180	Session 17 Making Wildlife Crossings Make Cents 46, 126, 187, 219	Session 18 Addressing Connectivity & Linear Infrastructure 43, 48, 97, 154	Session 19 Planning & Partnerships at Scales Big and Small 23, 123, 125, 208	Lightning Session 2 Terrestrial Ecology & Tools 15, 33, 45, 60, 77, 88, 92, 185, 199, 207
12:30 PM	Local Lunch/Plenary Keynote #2					
1:45 PM	Session 20 All Creatures and Crossings Great and Small 47, 148, 188, 221	Session 21 Policy and Partnerships: Breaking down Silos 3, 40, 52, 205	Session 22 Tools from a Policy and Program Toolbox 32, 91, 107, 147	Panel 3 Asia's Linear Infrastructure safeGuarding Nature (ALIGN) Project	Workshop 1 Wildlife Crossing Safety Workshop	
3:15 PM	Break (15 minutes)					
3:30 PM	Sponsor Meet-up (60 minutes)					
4:30 PM	Poster Reception (90 minutes)					
6:00 PM	END OF DAY 2					
WEDNESDAY June 7						
Times EST	Session Type					
8:00 AM	FIELD TRIP DAY ORIENTATION					
8:30 AM	Field Trip 1 Lake Champlain	AASHTO CES Committee Meetings				
	Field Trip 2 Reptiles and Amphibians					
	Field Trip 3 Moose and their Habitat					
	Field Trip 4 Road Crossings in the Northeast					
	Field Trip 5 Bike Trip along the Lake					
	Field Trip 6 Land Use & Transportation Planning					
	Field trip 7 Winter Resort Development					
5:00 PM	END OF DAY 3					
THURSDAY June 8						
Times GMT	Session Type					
9:00 AM	Day 4 Welcome Plenary Session Orientation					
9:00 AM	Panel 4	Session 23	Session 24	Session 25	Session 26	

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	Making Connections: Transportation and Aquatic Conservation	Wildlife Corridors and Transportation Planning 22, 38, 111, 232	A Road Less Traveled: Wildlife Movement and Crossings 1, 56, 58, 144	Reducing WVC in the Space-Time Continuum 167, 190, 193, 198	"Structure"d Partnerships for Wildlife 99, 124, 131, 237
10:30 AM	Break (15 minutes)				
10:45 AM	Session 29 Non-Traditional Partnerships for Connectivity Conservation 89, 189, 215, 228	Session 27 Diving in to the First Pooled Fund Study for Transportation Ecology 78, 116, 191, 229	Session 28 So, Was There an Impact? Post-Construction Assessment 87, 117, 160, 175	Panel 5 Navigating Wildlife Infrastructure Opportunities in the Infrastructure Investment and Jobs Act	
12:15 PM	Plenary Wrap-Up and Introduction to ICOET 2025				
1:00 PM	END OF CONFERENCE				

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Podium Presentations

Abstract #	Lead Author Name & Affiliation	Presentation Title
1	Akanksha Saxena, Wildlife Institute of India	Spatio-temporal responses to road-related disturbance by a mammal community in a tiger landscape
3	Mikael Cejtin, Staying Connected Initiative	Advancing innovative transportation solutions as part of an integrated, collaborative approach to regional connectivity and climate resilience
4	Shona MacAffer, Edinburgh University	Why did the Albany Adder Cross the Road? Or did it? Methods to detect and mitigate extinction threats to an elusive dwarf adder
5	Dan Salas, Stantec	The Buzz About a New Bumble Bee Conservation Agreement
7	Siboniso Thela	Activity patterns and mortalities of wildlife along the Phalaborwa – Hoedspruit railway line in Balule Nature Reserve, South Africa.
19	Thomas Yamashita, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville	Influence of traffic volume on the variation in the mammal community composition within the road effect zone
22	Patricia Cramer, Wildlife Connectivity Institute	How Wildlife Concerns Are Incorporated Into Transportation Planning
23	Margaret Minzner, OKI Regional Council of Governments	Regional Greenspace Planning Partnerships in the Greater Cincinnati Area
27	Birthe Linden, University of Venda & Lajuma Research Centre	Linear infrastructure and primates: impact and mitigation examples from South Africa, Africa and beyond
30	Julia Kintsch, ECO-resolutions	Advancing climate-informed wildlife crossings: Wildlife Crossings and Climate Consensus Group joint statement and recommendations
32	Chris Slesar, Vermont Agency of Transportation	Vermont's Highways & Habitats Trainings and a Culture of Connectivity and the Vermont Agency of Transportation
35	Jens Hawkins-Hilke, VT Department of Fish and Wildlife	Integrating the Terrestrial Passage Screening Tool into Vermont Conservation Design
37	Matthew R. Gorton, Rubenstein School of Environment and Natural Resources, University of Vermont	Do Wildlife Underpasses Reduce Mortality Among Amphibians in Vermont?
38	Rachel Wheat, Oregon Dept of Fish and Wildlife	Wildlife Connectivity and Transportation Mitigation in Oregon: Partnerships in the Development of the Oregon Wildlife Corridor Action Plan
40	Sara Reynolds, Cornell University	Highway Departments as Watershed Stewards – Trans-jurisdictional Challenges and Opportunities for Reducing Flooding
42	Simon Wigren, HDR	More than Models and Field Data: Site-specific Design of Wildlife Crossings in Alaska
43	Serge Stanich, California High-Speed Rail Authority	Planning and Designing California High-Speed Rail for Wildlife Movement: Stakeholder Engagement, Impact Assessment, and Mitigation on the San José to Merced Project Section

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44	Kathleen Hoenke, Southeast Aquatic Resources Partnership	Assessing the Unknown: Understanding the Impacts of Culverts on Aquatic Habitat Fragmentation and Aquatic Organism Passage in the Southeastern United States
46	Graham Porter, Road Ecology Center, University of California, Davis	Economic Decision Support for Wildlife-Vehicle Conflict Reduction
47	Madison Nadler, University of Texas Rio Grande Valley	Capturing Herpetofauna and Small Mammals with Camera Traps and Infrared Trip Wire Systems
48	Rob Ament, Western Transportation Institute, Montana State University	IUCN Protected Area Technical Report: Addressing ecological connectivity in the development of roads, railways and canals. Ament R, Clevenger AP, van der Ree R, editors.
52	Travis Brammer, Ruckelshaus Institute of Environment and Natural Resources, University of Wyoming	An Analysis of State and Local Connectivity Policies Impacting Transportation Ecology
53	Roland Dijkhuizen, Arcadis Nederland B.V.	AI/ML Solutions for Wildlife Vehicle Collision Hotspot & Road Surface Analysis
56	Marcus Elfström; EnviroPlanning AB	Wild boars extend their home ranges along road barriers
57	Elizabeth Myers Toman, The Ohio State University	Stream & Wetland Mitigation Forecasting: Developing a Predictive Model for Faster Project Delivery and Cost-Savings
58	April Martinig, University of New South Wales	Temporal clustering of prey in wildlife passages provides no evidence of a prey-trap
62	Daniel Buford, FHWA Office of Project Development and Environmental Review	Aquatic Organism Passage at Transportation Crossings: Part 1— Project Design, Technical Guidance, and Examples for Success
64	Piper Wallingford, The Nature Conservancy	A Scientific Approach to Developing Habitat Connectivity Mitigation
66	Emilie Snell-Rood, University of Minnesota	Roadside revegetation with native plants: establishment of plants and support of pollinators
68	Kerry Wilcoxon - Arizona Department of Transportation	Development of Safety Funding Models for Use of Highway Safety Improvement Program (HSIP) Funding for Wildlife-Vehicle Collision Countermeasures on State Roads in Arizona
71	Nathaniel T. Marshall, Stantec Consulting Ltd., Columbus, Ohio	Environmental DNA Applications for the Detection of Freshwater Mussels and Use for Facilitating ESA Section 7 Consultation
78	Matthew Bell, Western Transportation Institute	Innovative Fiber-Reinforced Polymers for Wildlife Crossing Infrastructure
79	Sarah Haggerty, Maine Audubon	Stream Smart Takes a Trip: Better Culverts Beyond Maine (and just in time!)
82	Paul W. James, Central Washington University	Fish Passage and Macroinvertebrate Colonization in Constructed Stream Channels as an Indicator of Aquatic Connectivity Following Culvert Removal
87	Kevin W. Ryer, School of Earth, Environmental, and Marine Sciences, University of Texas Rio Grande Valley - Brownsville	Multiyear post-construction monitoring of two ocelot road mortality mitigation projects in southern Texas
89	Julia Kintsch, ECO-resolutions	Advancing Wildlife Crossings on I-70 East Vail Pass through Community-led Partnerships

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90	Glenn Gingras, Vermont Agency of Transportation	Using The Terrestrial Passage Screening Tool In Project Review And System-Wide Prioritization
91	Melissa Rottenberg (Arcadis)	Digital Tools for Engaging Audiences
93	Jill Carpenter, LSA Associates	Bats in swallow nests: implications for bat conservation
94	Caitlin Drasher, University of Vermont	Mapping omnidirectional movement of terrestrial mammals in Vermont around roadways and transportation structures
97	Brock Ortega, Dudek	Investigating and mitigating potential wildlife-connectivity effects of a very large aqueduct in California
99	Michelle Cowardin (Colorado Parks & Wildlife)	Building Bridges: How Colorado is Reimagining Collaboration to Address Wildlife Connectivity
100	Beatriz Cecato Dumalakas - Luiz de Queiroz" College of Agriculture (ESALQ) - University of São Paulo (USP)	Effect of wildlife crossings signs on driver's speed: an experiment on BR-262, Mato Grosso do Sul, Brazil.
101	Victor J Colino Rabanal. Department of Animal Biology. University of Salamanca (Spain)	New prototype of road sign based on temporal models that warns drivers in real time about the risk of animal-vehicle collision: implementation at regional scale and first results
103	Annette Mertens, Agristudio, Italy	Evaluation of effectiveness of an innovative Animal-Vehicle Collision Prevention System in Italy, Romania, Spain and Greece
104	David Waetjen, Road Ecology Center, UC Davis and Dudek	AI Assisted Wildlife Camera Trap Image Processing and Management
107	David Zippin	Leveraging Section 10 of the Endangered Species Act to Cover DOT Projects (Even When there is a Section 7 Nexus)
109	Blake Walter, Felsburg Holt & Ullevig	Remote Biologists – Integrating UAS and Spatial Data in Wetland Detection & Modeling
111	Ron Sutherland, Wildlands Network	Trade-offs when setting statewide priorities for wildlife road crossings: a nonprofit-led case study for North Carolina
116	Nova Simpson, Nevada Department of Transportation	Benefits of initiating a pooled fund study.
117	Scott LaPoint, Black Rock Forest	Justifying mitigation via highway impacts on wildlife distributions, behaviors, gene flow, and mortality.
118	Caitlin Littlefield, Lead Scientist, Conservation Science Partners	What we know about climate change and wildlife crossings: A literature review and case study
123	Wanda Hightower Austin, NC Department of Transportation	Corridor K of the Appalachian Development Highway System: Fresh Perspectives on Environmental Stewardship and Project Delivery
124	Shannon Crossen, ICF Jones and Stokes	Bridging the Gap: Cultivating Successful Partnerships and Conservation Outcomes with Diversity, Equity, and Inclusion
125	Morgan Robertson, California Department of Transportation	Partnerships Pave the Way: Highway 17 Wildlife Crossing Completed for Mountain Lions in Santa Cruz County, California
126	Neal Sharma, Wildlife Conservation Network	Collaborating to Catalyze Action – A Funder's Perspective on Connectivity Conservation in California
129	Vedant Srinivas, Eastlake High School, Sammamish, Washington	Rapid Animal Detection and Identification System - RADIS

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130	Jaret C. Daniels, Florida Museum of Natural History, University of Florida	Milkweeds and Machine Learning: Using Drones and AI to Monitor Roadside Monarch Breeding Habitat
131	Kylie Paul, Center for Large Landscape Conservation	Land trusts and wildlife crossing structures: How to involve private land partners in projects to reduce wildlife-vehicle conflict and reconnect landscapes
133	Steffy Velosa, Concordia University, Department of Geography, Planning and Environment, Canada.	Predicting zones of high-turtle-presence on roads: A tool to identify locations in need of mitigation
136	Eric Chase - Center for Dirt and Gravel Road Studies, Penn State University	Pennsylvania Road Stream Crossing Design for Aquatic Organism Passage and Storm Resiliency
140	Nancy Munn, NOAA Fisheries	Fish Passage Design and Transportation Infrastructure
144	Chad Loberger, Arizona Game and Fish Department	Desert Bighorn Sheep Prefer Overpasses . . . Or Do They?
147	Sarah C Davidson, the Ohio State University and Max Planck Institute of Animal Behavior	Open tools for collaborative wildlife management and conservation
148	Laura Stone P.E. , Vermont Agency of Transportation	Wood Turtles to Moose: A Corridor Approach to Connectivity along a State Highway in Central VT
151	Autumn Iverson, Road Ecology Center, University of California, Davis	Landscape linkage models do not consistently predict wildlife movement
154	Steve Goodman, National Parks Conservation Association	Research Results and Mitigation Strategies to Improve Wildlife Connectivity and Human Safety along I-40 in the Pigeon River Gorge near the Great Smoky Mountains National Park
156	Christina N Kranz, North Carolina State University	Using Wildflowers and Compost Amendment to Manage Our Disturbed Roadside Soils
157	Caroline Hernandez, University of Illinois Chicago	Lessons from the First Nationwide Conservation Agreement for Monarch Butterflies on Energy and Transportation Lands
160	Xiaochun Qin, School of Civil Engineering, Beijing Jiaotong University	Post-assessment of the eco-environmental impact of highway construction--a case study of Changbai Mountain Ring Road
164	Kaitlin Stack Whitney, Science, Technology & Society Department, Rochester Institute of Technology	Modified mowing for pollinators in New York State Right of Ways; does it work?
165	Jed Merrow, McFarland Johnson	Amphibian Road Crossing Hotspot Modeling
167	Sandra MacDougall, Red Deer Polytechnica	A spatiotemporal analysis of ungulate-vehicle collision hotspots in response to road construction and realignment
168	Liz Hillard-Wildlands Network	Incorporating elk movement behavior from GPS monitoring to identify high priority areas for road mitigation along I-40 near Great Smoky Mountains National Park
171	Getachew Mulualem Ethiopian Biodiversity Institute	Roadkill in Ethiopia: a case study examining vertebrate road mortality on selected highways passing through four spatially isolated protected areas of eastern Ethiopia
175	Bilal Habib, Wildlife Institute of India	A bridge for the tiger: the story of mitigation measures on India's oldest highway
178	Gordon Keller, Genesee Geotechnical	Infrastructure Climate Resilience for the National Forests of California

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180	Hao Xu, Associate Professor, University of Nevada, Reno	AI applications in advanced roadside sensing systems
187	Kylie Paul, Center for Large Landscape Conservation	West-Wide Assessment of Cost-Effective Opportunities for Mitigating Wildlife Vehicle Collisions and Ecological Connectivity
188	Elizabeth Fairbank, Center for Large Landscape Conservation	Mojave Desert Tortoise Transportation Ecology Task Force: An interdisciplinary approach to help save a threatened species
189	Marian Vernon, Peninsula Open Space Trust	The role of land trusts in enhancing wildlife connectivity: A case study from Coyote Valley, CA.
190	Alex Vanko, Wildlands Network	Prioritizing Wildlife Crossings in North Carolina
191	Marcel Huijser, Western Transportation Institute, Montana State University	Cost–benefit analyses of mitigation measures along highways for large animal species: An update and an expansion of the 2009 model
193	Fraser Shilling, Road Ecology Center, University of California, Davis	Spatially Explicit Decision Support to Resolve Wildlife-Vehicle Conflict
197	Anna Wearn, Center for Large Landscape Conservation	Policy opportunities to ensure transportation infrastructure maintains landscape connectivity and enhances climate resilience
198	Amy Villamagna, Plymouth State University	Spatiotemporal assessment of wildlife-vehicular collisions in New Hampshire
200	Janette Perez-Jimenez	Converting Abandoned Railroad Tunnels into Bat Hibernacula: Benefiting Bats and Transportation Organizations
201	Basak Bektas, Dept. of Mechanical and Civil Engineering, Minnesota State University, Mankato	Use of Innovative Technology to Deter Bat Bridge Use Prior to and During Construction
202	Meade Krosby, Climate Impacts Group, University of Washington	Don't stop now: Using existing knowledge and tools to adapt wildlife-friendly infrastructure to a changing climate
205	Matt Howard, Utah Department of Transportation	Breaking Down State Agency Silos Between Wildlife and Transportation
208	Peter Pasnik, New York State Department of Transportation	Robert Moses Parkway Transformation, Niagara Falls, NY
211	Matthew Quirey, The Ray	Reimagining Roadside Landscapes: pollinator-friendly roadside solar and other opportunities
212	Sasha Dansky, PE, Mark Thomas & Company	Approval Processes for Wildlife Crossings on State Highway Systems – Navigating the Caltrans System to Implement Novel Solutions
215	Chris Colligan, Teton County	Local solutions to planning and funding of wildlife crossings: A case study from Teton County Wyoming
217	Jennifer Hopwood, Xerces Society for Invertebrate Conservation	Imperiled Pollinator Habitat Conservation along Roadways
219	Ben Shepherd, Inwood Consulting Engineers, Inc.	Taking the long road: A 10-year approach for valuing and evaluating wildlife crossings for compensatory mitigation on Florida's roadways
220	James Murdoch, University of Vermont	Integrating genetic data into assessments of wildlife connectivity across the road network of Vermont

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221	Lindsay Millward, Oregon State University	Big crossings for small animals: evaluating timelines for discovery, use, and occupancy of wildlife crossing structures by various small mammal species
222	Jeff Gagnon Arizona Game and Fish Department	Effects of Traffic Volume on the Success of Right-of-Way Fence Modifications for Pronghorn Permeability
223	Yorgos Iliopoulos, CALLISTO: Wildlife and Nature Conservation Society, Greece	Towards safer roads: the LIFE SAFE-CROSSING project in Greece
225	Huiying ("Fizzy") Fan, Georgia Institute of Technology	Multi-layered Transit Network Resilience to Flooding: An Analysis of 19 U.S. Cities
228	Liz Hillard-Wildlands Network	NGO-led road ecology research: a catalyst for diverse partners and local support for mitigation on I-40 near Great Smoky Mountains National Park
229	Cheryl Brehme, US Geological Survey	Efficacy and Design of Elevated Road Segments for Small Animal Passage
231	Ken Sweeney, P.E., Arizona Department of Transportation	Engineering Solutions to Common Ecological Impacts of Transportation: The Use of Composite Bridge Systems for Sustainable Infrastructure
232	James Hirsch, New Mexico Department of Transportation	Development and Implementation of New Mexico's Wildlife Corridors Action Plan
233	Jamie Langbein, University of Texas Rio Grande Valley	Evaluating the Effectiveness of Redesigned Wildlife Exits Along a South Texas Highway
234	Joseph Krolak	FHWA Aquatic Organism Passage Implementation Guide
235	Linda Figg, FIGG Group	Innovative Bridges for Healthy Landscapes Benefiting Air, Water, and Wildlife
236	Richard Inman, U.S. Geological Survey	Estimating road age and traffic volume using machine learning to understand how vehicular traffic is affecting Greater sage-grouse in Wyoming
237	Elizabeth Fairbank, Center for Large Landscape Conservation	Partnerships and Planning to Reduce Wildlife and Transportation Conflicts in the Greater Yellowstone Ecosystem
238	Johanna Elsensohn, USDA-ARS, Appalachian Fruit Research Station	A novel approach to assessing human assisted insect dispersal on vehicles
239	Cameron Cormac: Centre for Functional Biodiversity, University of KwaZulu-Natal	The effect of Linear infrastructure on vertebrates in Hluhluwe-iMfolozi Park and Isamangaliso Wetland Parks in KwaZulu-Natal, South Africa.

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Lightning Presentations

Abstract #	Lead Author Name & Affiliation	Presentation Title
11	Raji Reddy Myakala, National Institute of Technology Warangal	A Decision Support Tool for the Sustainability Rating Index for the Maintenance of Rural Roads in India
15	James Hatcher, Virginia Department of Transportation	Virginia's First Wildlife Corridor Action Plan
31	Jason Morrell, Arcadis U.S., Inc.	Data Analytics Tools for Ecology Program Management
33	Anna Rose Mehner, University of Texas Rio Grande Valley – Brownsville	Influence of Traffic and Noise on Bobcat and Coyote Behavior and Use of Wildlife Crossing Structures in Southern Texas
45	Larissa Oliveira Gonçalves - Laboratório de Ecologia, Universidade Federal do Rio Grande do Sul, Brasil	Development of public policies to promote mitigation of animal-vehicle collisions on roads using participatory and transdisciplinary approaches
60	Morgan Niccoli, Arcadis, Inc.	A Streamlined and State-specific Approach to Bat Consultation on Routine Transportation Projects in Georgia
77	Svenja B. Kroeger - The Norwegian Institute for Bioeconomy Research (NIBIO; Trondheim, Norway)	What makes a road verge species rich?
85	Cathy Ford - Idaho Transportation Dept.	Tri-State Perspective of Seed Based Restoration
88	Sabrina Mruczek, M.Sc. Researcher	To What Extent Have the Mandates of Transportation Agencies been Improved Regarding the Consideration of Biodiversity? An International Comparison.
92	Amanda Keil, Wild Aware	A Non-Profit Community-based Organization and a For-Profit Technology Company Collaborate on a Citizen Science Project to Increase Awareness Amongst Drivers in an Exurban Community
146	Carrie Banks, Massachusetts Division of Ecological Restoration	Stream Crossings in Transition: Design of Culverts and Bridges on the Frontline of Coastal Wetlands Migration
177	Jake Riley, Stantec Consulting	Environmental DNA: A new tool for Transportation Projects
182	Micah Shapiro, Resource Environmental Solutions	Full-delivery DOT P3s for TMDL Reductions
185	Syeda (Zeema) Haque, PE and Catie Seaton, Modern Geosciences	Optimal Locations for EV Charging Stations with focus on Sustainability, Advancing Innovative Technologies and Carbon Footprint Reduction
186	Kayti Ewing, Arkansas Department of Transportation	Healing Springs Natural Area: Rare Fish Species and Stream Mitigation Needs Drive Acquisition of a Natural Area in a Rapidly Urbanizing Landscape
199	Brent Setchell, Florida Department of Transportation District 1	Organizing and Sharing Wildlife Crossing Photos -FDOT's Wildlife Bridge Crossing GIS Site
207	Amanda Keil, ARC Solutions	Over, Under, A Road Runs Through: A Collaborative Secondary Educational Module on Wildlife Crossings and Habitat Connectivity

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214	Garrett Foster, Washington State University	Effects of the life history stages and water quality parameters on the toxicokinetics of 6PPD-quinone, an acutely toxic tire rubber byproduct, in coho salmon
218	Katasha Cornwell, Florida Department of Transportation	Transportation supports Recovery of Threatened Crayfish
226	NYS Department of Transportation	Incorporating NAACC scoring methodology into project objectives and anticipating post construction scores on a Large Culvert program in New York State.

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Poster Presentations

Abstract #	Lead Author Name & Affiliation	Presentation Title
2	Jochen A.G. Jaeger, Concordia University Montreal, Canada	Comparing two standardized data-collection protocols for road mortality surveys: Bike or car?
6	Stephen Bell, Virginia Tech Transportation Institute	A Hotspot Analysis of WVCs in Virginia Using GIS Applications
8	Melissa Toni, Federal Highway Administration	FHWA New York Division's Endangered Species Act Compliance Procedures
9	Tim Brothers, Massachusetts Institute of Technology and International Dark-sky Association	Increasing Light Pollution, Its Effect on Nighttime Ecology and a Scalable Solution to Reversing the Trend
10	Matthew Bell, Western Transportation Institute	Roadkill Observation and Data System (ROaDS) Deployment for Federal Lands
12	Jackie Scott - Central Lake Ontario Conservation Authority	Victoria St. road widening project: a successful transportation – ecology partnership.
16	Tyler Brown, Vermont Fish and Wildlife Department	Protecting Transportation Infrastructure while Maintaining Wetland Functions – Strategies for Resolving Human-Beaver Conflicts
17	Valerie Bolduc, Concordia University	Mammal Use of Existing Crossing Structures Under Roads in the Laurentides: Light at the End of the Tunnel?
18	Tryston Calder	The Effects of Drive-Through Mobile Emissions on Air Quality
20	Ami Gulden, CWB, PWS, Dewberry	Going to Bat ~ A Cooperative Approach to the Conservation of Summer Roosting Bats in New Jersey Bridges
21	Elizabeth A. Saldo, University of Texas Rio Grande Valley	The Effect of Road Mitigation Structures on the Texas Tortoise (<i>Gopherus berlandieri</i>)
24	Michal Bíl, CDV - Transport Research Centre	Designing Experimental Studies for Determining the Effectiveness of Roadkill Mitigation Measures: A Bayesian Approach Applied to Odor Repellents
25	Alison Scoville, Central Washington University	Use of I-90 wildlife crossing structures in Washington's Cascade Mountains assessed by camera trap data on medium to large mammals
26	Gregory E. Granato, U.S. Geological Survey	Evaluating a watershed approach to stormwater mitigation with the Stochastic Empirical Loading and Dilution Model (SELDM)
28	Chelsea Harris - AECOM	Bringing New Technologies to an Old Science
29	Jens Hawkins-Hilke, Vermont Fish & Wildlife Department	Vermont's Forest integrity Law Improves Land Use Planning for Connected Habitat
34	Nicole Monies, FDOT	Central Florida I-4 Wildlife Crossing Need, Design, & Construction update
39	Richard A. McLaughlin, North Carolina State University Crop and Soil Sciences Department	Cleaner Water from Construction Sites

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41	Scarlett Alexander, San Diego State University	Environmental Impact of PHEV to BEV Transition: A Life Cycle Assessment Study
49	Pat Basting, Jacobs; John kronholm presenter CDOT	A Literature Analysis to Determine Optimal Wildlife Crossing Structure Size
50	Katina Kapantais, Washington State Department of Transportation	A Multi-faceted Approach to Improve Conditions for Pollinators along Washington State Highways
51	Mari Galloway, Wildlands Network	Road Ecology in North-Eastern Sierras: Research and Collaboration to Enhance Restoration of Wildlife Connectivity and Public Safety on Hwy 395
54	Heather Hanson, U.S. Fish and Wildlife Service	Where Roads and Streams Meet: Designing for Ecological Function
55	Trish Smith, The Nature Conservancy	Designing Wildlife Crossings to Meet Focal Species Needs: An Example from Interstate 15 Connectivity Planning efforts in Southern California
59	Elisha Akech Ochungo, Multimedia University, Kenya	NATURAL HISTORY RESOURCE CENTRE IN KENYA: A FEASIBILITY STUDY
63	Hannah Clark, Caltrans	Reconnecting Northern California Habitats: A Presentation of Caltrans North Region Wildlife Connectivity Projects
65	Virginia (Ginny) King, Stantec	Integration of Natural Capital and Nature-based Solutions (NbS) to move the needle toward carbon footprint reduction
67	Katie Rodriguez, CA Dept. of Transportation (Caltrans)	Integrating Stakeholders and Connectivity Data in Wildlife Crossing Infrastructure Planning for Highway 58 in the Tehachapi Linkage in Central California
69	David Paulson, MA Department of Transportation Highway Division	Partnering for the Commonwealth: Incorporating Natural Resource Priorities into Transportation Planning for a Resilient Landscape
70	Ken Sweeney, P.E., ENV SP	The Use of Composite Bridge Systems for Sustainable Infrastructure
72	Joseph Bell, US Geological Survey	Engaging in cooperative research and development partnerships to advance the science of ecosystem monitoring across the Nation
73	Pam Cook, PE, North Carolina Department of Transportation	From Statewide Policies to Long-Range Planning, NCDOT Considers the Natural and Human Environment
75	Jenna L. Chapman	Bat activity differences between highway sites with and without wildlife crossing structures depends on echolocation frequency guild
76	Eleanor Turner, University of California San Diego	Mammal use of underpasses to cross Route 606 in Guacimal, Costa Rica
80	Jason T. Irwin, Central Washington University	Amphibian and reptile use of mitigated habitats and crossing structures in the Snoqualmie Pass area of Interstate-90 in Washington State, USA
81	Wendy Collinson-Jonker The Endangered Wildlife Trust	Linear infrastructures and Biodiversity in Africa

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83	Jochen A.G. Jaeger, Concordia University Montreal, Canada	Advancing the consideration of ecological connectivity in environmental assessment: Synthesis of current challenges and steps ahead
84	Melissa Butynski, Center for Large Landscape Conservation	Assessing major linear infrastructure threats to great apes and gibbons across three pilot landscapes
86	Cecilia Aguilar Morales, Wildlands Network	Securing Connectivity Across Highways for Jaguars in Strategic Regions of Sonora and Sinaloa, Mexico
95	Megan Freeman, Emory University	ADAPTING DRAINAGE STRUCTURES TO DECREASE WILDLIFE-VEHICLE COLLISIONS
96	Scott D. Jackson, University of Massachusetts Amherst	Ecosystem-based, Core-independent Regional Connectivity to Inform Conservation Networks at Multiple Scales
106	Laurel Low CA Department of Fish and Wildlife	Considerations for Determining Advance Mitigation Credits for Wildlife Connectivity Actions
108	Wes Cartner, North Carolina Department of Transportation	Implementing Unmanned Aerial Systems and Aerial Pesticide applications for Compensatory Mitigation and Wetland Restorations
110	Nicholas Marchese, South Jersey Transportation Authority	South Jersey Transportation Authority (SJTA) Roadway Environmental Advancement Initiative (READI)
112	Linda Figg - FIGG Group Inc.	I-91 Brattleboro Bridge - A Bridge to Nature - Enhancing Infrastructure to Preserve and Celebrate the Landscape
113	Bree Stephens, RES	How Do You Determine Achievable Ecological Uplift in Stream Restoration? Biological Monitoring Pre- and Post-Stream Restoration
119	Tom Langen, Clarkson University	Wildlife Use Culverts to Cross the Pan-American Highway in Guanacaste Conservation Area, Costa Rica
120	Lucie DISPAN de FLORAN - University of Reims Champagne-Ardenne, France	A multi tools approach for assessing the impact of two different linear transport infrastructures on landscape connectivity for four terrestrial mammals species.
121	Kristina Ernest, Department of Biological Sciences, Central Washington University	Pikas Rock! Use of linear infrastructure rock embankment and wildlife crossing structures by the American Pika (<i>Ochotona princeps</i>), a rocky habitat specialist
122	Amanda Keil, ARC Solutions/Rocky Mountain Wild	Over, Under, A Road Runs Through: A Collaborative Secondary Educational Module on Wildlife Crossings and Habitat Connectivity
132	Valerie Bolduc, Concordia University	To what extent do wildlife and humans co-use existing crossing structures? Proposing a human co-use classification for mammals
134	Celina OliveriCaltrans	Wildlife Connectivity Efforts in Caltrans District 7 (Los Angeles and Ventura Counties)
135	Marc Brenman, IDARE LLC	Social equity implications of future mobility

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137	Thomas J. Yamashita, Caesar Kleberg Wildlife Research Institute, Texas A&M University – Kingsville	The combined effects of anthropogenic disturbance, local-scale environment, and structural characteristics on wildlife crossing use in South Texas
138	Jessica A. Moreno, Coalition for Sonoran Desert Protection	Safe Passages for Wildlife on Interstate-10 East of Tucson, Arizona: Applying science to achieve on the ground mitigation
139	Brian Smith FHWA,	National Seed Strategy - Restoring Resilience
141	David MacKinnon, Nova Scotia Environment & Climate Change	Avoiding Dead-End Wildlife Crossings – Achieving Connectivity Across and Beyond Highway Rights of Way Through Multi-Organization Collaboration, Planning, Design, Mitigation, and Land Securement
142	Chris Standley, NYS Dept. of Transportation	Prioritizing Wildlife Passage Infrastructure Improvements via Optimized Hot Spot Analysis and Modeling Deer-Vehicle Collision Count-Data
143	Andrew Schrauth, New York State Department of Transportation	NY Routes 400/16 Roundabout Center Island Stormwater Infiltration, Aurora, NY
145	Shannon Crossen, ICF Jones and Stokes	Connecting Habitat, Wildlife, and Community in the Gaviota Coast: A Case Study
149	Colleen Fletcher; Federal Highway Administration	Federal Highway Administration Implementation of BIL Section 11123: Wildlife Crossing Safety
150	Victor Colino Rabanal, University of Salamanca	Animal and driver behavior near the moment of collision: implications for design of collision reduction measures
153	Mirna Manteca, Wildlands Network/Latin America and Caribbean Transport Working Group	Latin America and Caribbean Transport Working Group
155	Liz Hillard-Wildlands Network	Monitoring of herptofauna-specific road crossing structures in Southern Appalachia reveals use by timber rattlesnakes (<i>Crotalus horridus</i>) and a diversity of other wildlife species.
158	Ethan Pepin, Rutland Regional Planning Commission/Tufts University	Ecology of Play: Restoring Streets as Both Spaces for Play and Urban Watersheds
159	Luke Briccetti, Graduate Student, SUNY Plattsburgh	The Management of Private Road Crossings in the Lake Champlain Basin
161	Garrett Jackson, Washington State Department of Transportation	Teaming with stakeholders for success in aquatic habitat restoration
166	Chris Standley, NYS Dept. of Transportation	Identifying and Prioritizing Core Linkages for American Marten alongside Transportation Infrastructure in the Adirondack Mountains, New York, USA.
169	Michael Hardy, Biogeographic Data Branch, California Department of Fish & Wildlife	California Department of Fish & Wildlife's Terrestrial Barrier Dataset
170	Ahjonid Garmestani, U.S. Environmental Protection Agency	Resilience governance of social-ecological systems
173	Jennifer Donnini, Concordia UNiversity	How strongly does human use of existing crossing structures influence their use by wildlife? Investigating

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		time differences between human disturbance and wildlife detections
176	Victor Grivegnée-Dumoulin, Corridor Appalachien	Increasing safety and improving connectivity through multi-stakeholder leadership.
179	Matt Germino.USGS	Integration of Weed-Suppressive Bacteria With Herbicides to Reduce Exotic Annual Grasses
181	Victor Grivegnée-Dumoulin, Corridor Appalachien	Ecological Connectivity Plan, Highway 10, Quebec, Canada : Increasing safety, Improving connectivity and stakeholders leadership
184	Diane Debinski & Rob Ament	Evaluation of Roadside Pollinator Habitat & Management Practices
192	Francois Appiah, Caltrans	Mountain yellow-legged frog, mitigation, captive breeding, translocation, multi-agency
194	Renee Callahan, ARC Solutions	Federal Funding Opportunities to Reduce Wildlife-Vehicle Collisions and Improve Fish Passage & Habitat Connectivity
203	Alissa Salmore, Idaho Transportation Department	Regaining Ground: In-house Partnerships to Convert Underutilized Outdoor Spaces into Pollinator Resources at Transportation Agency Facilities
204	Marcel P. Huijser, Western Transportation Institute - Montana State University	Modified jump-outs for white-tailed deer and mule deer
206	Rafael Batista de Morais - “Luiz de Queiroz” College of Agriculture (ESALQ) - University of São Paulo (USP)	Analysis of news related to vehicular collisions with wildlife: does the media reflect the reality of the highways in Mato Grosso do Sul?
209	Alexandra von Bieberstein, New York State Department of Transportation	Partnership & Coordination to Support Transportation, Ecology & Park-like Character within Adirondack Travel Corridors
210	Christine Colley, NYSDOT	NYSDOT Involvement in Multi-Agency Coordination (MAC) Task Force for the Control of Spotted Lanternfly (<i>Lycorma delicatula</i>)
213	Richard Baldauf, US Environmental Protection Agency	Opportunities for Air Pollution and Climate Mitigation using Roadside Green Infrastructure
216	Peter Steckler, Northeast Conservation Services LLC	Addressing Road Stream Crossings for Multiple Benefits
224	Marian Vernon, Peninsula Open Space Trust	A multi-partner effort to plan for connectivity and safe passage on highways between three California mountain ranges
227	Susan Alexander, Virginia Dept. of Transportation	VDOT's Enrollment in the Monarch Candidate Conservation Agreement with Assurances (CCAA)