

INTERNATIONAL CONFERENCE ON ECOLOGY AND TRANSPORTATION



DENVER, CO | MAY 11-15, 2025

PROGRAM LAST UPDATED 3/11/25 PROGRAM IS NOT FINAL AND WILL BE UPDATED PERIODICALLY AS WE WE GET CLOSER TO THE EVENT.

PRE-CONFERENCE CONSIDERATIONS

MENTORING PROGRAM

This year we are launching the first ever Mentoring Program at ICOET. In order to facilitate networking and give students and young professionals the opportunity to get the most out of the conference, we have created a mentoring program when mentees and mentors are hand paired via their compatibility of interests, career paths, and aspirations. We are asking mentoring pairs to meet once before the conference, once during the conference, and once after the conference to ensure adequate one on one time for the conversations, connections, and advice to flow! If you are interested in being a mentor, mentee, or both, please fill out <u>this application</u>. Applications are due Friday, April 11th, 2025.

ROAD ECOLOGY PHOTO CONTEST

Enter your best pictures/graphics to win a prize and accolades from your colleagues. The 10 best pictures submitted will be determined by a panel and prizes will be given for the top 3 determined by attendees at the Monday Welcome Reception (must be present to win). You will retain ownership of your entries, but by submitting your photo, you give us permission to use them in ICOET materials. Pictures can be funny, sad, exciting, happy, inspirational, informative or thought-provoking. Please email your entries to slemieux@ucdavis.edu with a note indicating your name, organization (if desired), and a few words describing the picture, unless its obvious. Good luck. and may the odds be ever in your favor! All photos due by Sunday, May 4th 2025.

FIELD TRIP & TRAINING REGISTRATIONS

Don't miss your chance to pre-register for field trips and trainings. Complete your ICOET experience by signing up to see what nature Colorado has to offer, marvel in the road ecology projects, or hone valuable skills. Field trip summaries and information can be found at <u>www.icoet.net/2025/fieldtrips</u>. Training explanations and details can be found at <u>www.icoet.net/2025/trainings</u>.



Colorado **Welcomes You** to ICOET 2025

















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CONFERENCE TIMES & TIME ZONES

Thanks for joining ICOET from your time zone. Because the conference includes an in-person component, all times in the program are expressed relative to local time in Denver, Colorado (Mountain Daylight Time, MDT). If you are participating virtually, you can find your time relative to MDT based on your location, using this website: https://greenwichmeantime.com/time-gadgets/time-zoneconverter/. We have also put major time zones at the beginning of the program. For example, Denver is -6:00 hours relative to GMT, so 9 am MDT in the program = 8 AM in California and 5 pm in Johannesburg, South Africa.



MESSAGE FROM THE CHAIR

Chris Slesar, ICOET Conference Chair Vermont Agency of Transportation

On behalf of the ICOET Steering Committee, it is my pleasure to welcome you to the fourteenth biennial International Conference on Ecology and Transportation in beautiful Denver, Colorado. ICOET is more than a conference, it is a community of transportation and environmental planners, practitioners, and academics working at the nexus of linear infrastructure and ecology. Again, this is a hybrid conference expanding our reach far beyond the walls of the conference rooms via virtual participation. New to ICOET in 2025 are a series of training sessions on relevant topics ranging from community involvement to managing and monitoring bats in transportation projects.

We have a robust and exciting program consisting of 4 trainings, 270 presentations (Podium, Lightning, and Multi-media/Poster), from 18 countries and 35 US states. We are honored to have award-winning independent conservation journalist, author of Crossings: How Road Ecology is Shaping the Future of Our Planet, Ben Goldfarb as our keynote speaker.

The conference theme for 2025 is Bridging Divides Through Collaboration. Collaboration is critical to success on all scales. Collaborative partnerships overlap and interact in dynamic ways to create and maintain a healthy planet. There are collaborations that are exclusive to the work we are doing in our own jurisdictions. And there are collaborations that capture broad landscapes and multiple political jurisdictions across the globe.

The magic of ICOET is rooted in multifaceted collaborations. ICOET is fueled by the interaction of many individuals representing many diverse organizations, working at different scales, from global to local - together producing a combined effect greater than the sum of their separate parts. This interdisciplinary conference flourishes on the relationships among participants, and their relationships in the contexts in which they are working.

Colorado's magnificent landscape of arid desert, river canyons, and rugged snow-covered Rocky Mountains provides the backdrop for this meeting. It is within this setting that we will undertake a four-day dialog that will inform and inspire participants to return to their respective jurisdictions and continue to bring our work to the next level. Conference participants will be steeped in the most current research and practices as represented by the foremost minds (both newcomers' and veterans') in transportation ecology research, academics, policy, and practice.

ICOET 2025 will be highly engaging and interactive and will delve into a diversity of relevant topic areas that root transportation decision-making in science and sound policy. We enthusiastically and warmly welcome newcomers to ICOET and look forward to embracing them in the camaraderie of the ICOET community. Please take every opportunity to network with old and new colleagues, collaborators, and friends. We look forward to your active engagement in ICOET 2025.

Welcome to Denver and enjoy the conference!

MESSAGE FROM THE ORGANIZER

Fraser Shilling, PhD Road Ecology Center Director and ICOET Lead Organizer

Every two years, ICOET brings you, a large, diverse and international crowd together to examine how transportation systems impact nature and what we can do to reduce those impacts. Your knowledge and enthusiasm are what makes ICOET successful and allowed it to persist for over two decades now. This year's conference celebrates and focuses on partnership as an important part of mitigating the impacts of transportation. Thanks to our sponsors, to the universities supporting the next generation of transportation ecologists, to the local, state and federal agencies encouraging their staff's participation, and to the private organizations and individuals providing their expertise.

One of the founding and still most common type of presentation at ICOET is "wildlife crossings", which bridge the roads that divide nature. In many ways, wildlife crossings are analogous to partnerships that bridge political divides and probably take as much time to get built. With today's political division, coming together around re-connecting nature provides a needed respite from damaging conflict. The question for nature, as it is in politics, is whether or not we will build enough bridges to save what we value in time to preserve it.

Partnership is at the core of this year's conference theme and many of the abstracts you submitted for presentation. It's also assumed to underlie successful conservation and environmental protection. However, it's often adversity and conflict that drives advancement and innovation, not collaboration. The world's environmental protection laws, civil rights legislation, the gradual recognition of indigenous peoples' sovereignty, women's right to vote, the end of slavery, and even the creation of many national forests and parks arose from different types of adversity. In a time of conflict it is worth considering what we can learn and gain from the adversity. Should we engage in evaluation of where we are in transportation ecology, find out if we are being successful; what should we really be doing, and who should we be doing it with?

This year's ICOET will be the largest in terms of abstract submissions (270), number of panels and organized sessions (19), and number of professionals and students participating. As in previous years, ICOET will be held in hybrid format (in-person and virtual), allowing greater participation by international and state partners and also limiting greenhouse gas production from travel. ICOET benefits from: a) a very active Steering Committee, which advises on overall strategies in conference content and evolution, selects awardees, and connects the conference to other organizations; b) a Program Committee that functions as a deep bench of scientific and practice experts, and c) an Abstract Review Committee, which includes many of you, providing your expert reviews of all contributed presentations. To these Committees -- I appreciate all of your efforts, individually and collectively.

The Road Ecology Center (<u>https://roadecology.ucdavis.edu</u>) is joined in organizing ICOET 2025 by the UC Davis Institute of Transportation Studies (<u>https://its.ucdavis.edu/</u>) and the National Center for Sustainable Transportation (<u>https://ncst.ucdavis.edu/</u>). The three organizations are each pioneers and among the largest in their fields and, in combination cover most issues in evolving sustainable transportation. We are excited to bring you ICOET 2025 and to make sure that ICOET is continuously and expertly managed into the future. We look forward to meeting many of you in-person and virtually and to helping you have a great ICOET experience. Look us up online, or during the conference.



Center for Environmental Excellence

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KEYNOTE SPEAKERS



Ben Goldfarb Journalist <u>https://www.bengoldfarb.com/</u>

Ben Goldfarb is an environmental journalist whose work has appeared in National Geographic, the Atlantic, the New Yorker, Smithsonian Magazine, Science, and many other publications. His most recent book, Crossings: How Road Ecology Is Shaping the Future of Our Planet, was named one of the best books of 2023 by the New York Times, and received the Rachel Carson Award for Excellence in Environmental Writing and the Banff Book Competition's Grand Prize. His previous book, Eager: The Surprising, Secret Life of Beavers and Why They Matter, won the PEN/E.O. Wilson Literary Science Writing Award. He lives in Colorado with his wife, Elise, and his dog, Kit — which is, of course, what you call a baby beaver.



Colorado DOT speakers to be announced!



SPONSORS & ORGANIZERS

THANK YOU to our generous private Sponsors for ORGANIZERS, LEAD SPONSORS, AND HOSTS continuing to help us reduce registration fees, to our outstanding co-host agencies, and to the members of UCDAVIS the Steering, Program, Abstract Review, and Awards Committees. ICOET 2025 is made possible through the Institute of financial and volunteer support of the many **Transportation Studies** organizations listed in this program. Please take time during your participation during the conference to visit the Sponsor booths and exhibits, learn about their products and services, and to express your appreciation for their support of the conference. **Road Ecology Center** PLATINUM SPONSORS University of California, Davis **GOLD SPONSOR** Paramet let's create tomorrow, together AASHTO Center for Jacobs SILVER SPONSORS Environmental **Stantec** Excellence Pew **FJS** COLORADO Department of Transportation **BRONZE SPONSORS** AZTEC WILDLIFE FEDERATION MARK THOMAS ERTEC ENVIRONMENTAL SYSTEMS DUDEK **EXHIBITORS EXCLUSION & DIRECTIONAL BARRIERS** MUNCKHOF WILDLIEF PROTECTION SYSTEMS MULE WILDLIFE (() **ENGINEERED SOLUTIONS** letwork A QUIKRETE® COMPANY Pinyon **AtkinsRéalis** SPECIES SSA Environmental FROM FECES CDR ASSOCIATES CONTRIBUTORS COLLABORATIVE DECISION RESOURCES Animex Internationa CENTER 🚯 Kiewit $\Delta R($ LARGE LANDSCAPE CONSERVATION RockSo Hobbs Ecology ENGINEERING COMPAN ECO-resolutions

POOLED FUND STUDY PARTICIPANTS

THANK YOU to these state Departments of Transportation that have donated up to \$10,000 towards ICOET 2025. They show the dedication happening across the nation for improvements to transportation ecology.





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2025 ICOET Conference | 9

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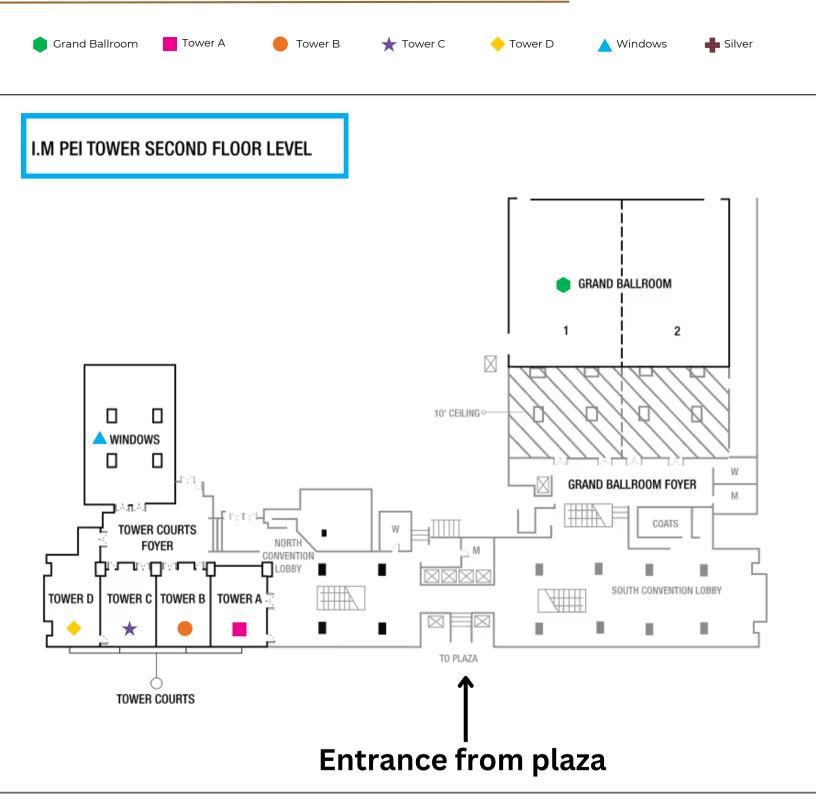
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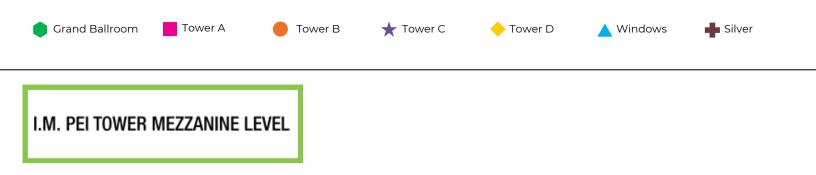
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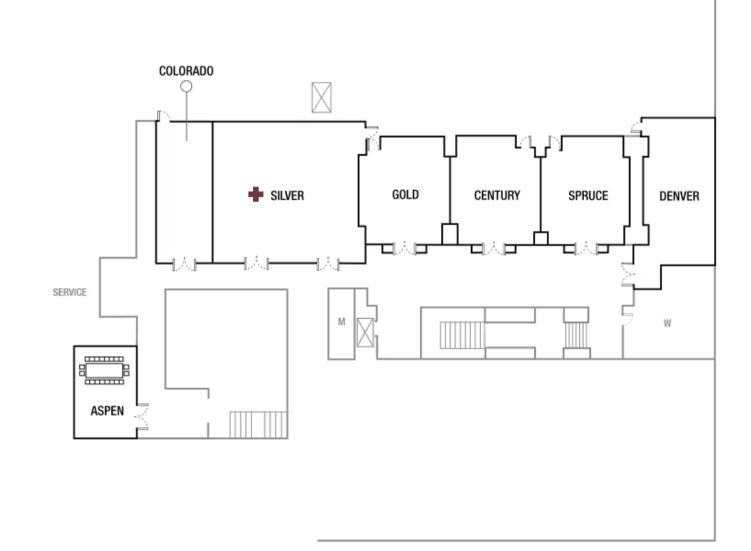
> Texas Department of Transportation

CONFERENCE ROOM MAP



CONFERENCE ROOM MAP





ROGRAM	* indicates a virtual presentation			
, 5,	Information on trainings can be found at <u>www.icoet.net/2025/trainings</u>			
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MAY 11				
	-			
 Trainings (Rooms TBD) Advancing Transportation University Partnerships 	n Ecology Through Agency-			
Break				
Trainings (Rooms TBD)				
 AI: What Is It and How Can You Use It? 				
 Managing and Monitoring 	g Bats at Transportation Structures			
	 3PM GMT; 5PM Johannesburg, Mumbai, India, 1AM(next day) Tower A Tower B ★ Tower C MAY 11 ICOET Check-In Starts (Sou Stop by registration to collect Trainings (Rooms TBD) Advancing Transportation University Partnerships Break Trainings (Rooms TBD) Al: What Is It and How Ca 			





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Whether it's resilient infrastructure, livable communities, or habitat restoration, we partner with clients to create vibrant, sustainable communities and restore the health of the planet for generations to come.

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2025 ICOET Conference | 12



9 AM MDT = 8AM PD	PROGRAM * indicates a virtu DT; 3PM GMT; 5PM Johannesburg, M Mumbai, India, 1AM(next day)	ual presentation
Grand Ballroom	Tower A 🛑 Tower B 🛧 Tower C 🔶 Tower D 🔺 Window	s Silver
MONDAY	(, MAY 12	
8:30 AM (MDT)	Day 1 Welcome Plenary Session Remarks from Conference Chair and Lead Organizer	
9:00 AM (MDT)	Colorado Welcomes Welcome Addresses by CO Transportation and Natural Resources Representatives	
9:30 AM (MDT)	ICOET Awards by Conference Chair and Ben Goldfarb	
9:50 AM (MDT)	Plenary Keynote: Ben Goldfarb	
10:30 AM (MDT)	Break & Poster Setup 10 minutes	
10:40 AM (MDT)	 Fechnical Sessions 1, 2, 3, 4, & 5 and Panel 1 Panel 1: Planning for Pollinators: How Voluntary Conservation Initiatives Can Address the Challenges Pollinator Listings for Transportation Agencies Session 1: Partnerships Connecting the Florida Wildl Corridor (80, 103, 201, 85) ★ Session 5: The Cat's Meow (73, 128, 63, 4) Session 4: Collaborative Initiatives for Leveraging Ro Ecology in Latin America (130, 69, 185, 79) ▲ Session 2: A Road Runs Through It: Improving Stream & Stability (75, 5, 183, *222) ➡ Session 3: Dead Serious About Preventing Roadkill (1 17, 172) 	ife ad n Quality
12:10 PM (MDT)	Lunch, Sponsor Meet-up, & Poster Setup 60 minutes 2025 ICOE	T Conference 13

EVENT PROGRAM * indicates a virtual presentation 9 AM MDT = 8AM PDT; 3PM GMT; 5PM Johannesburg, South Africa; 8:30PM Mumbai, India, 1AM(next day) Sydney, Australia Grand Ballroom Tower A Tower C Tower B Tower D Windows Silver MONDAY, MAY 12 CONTINUED 1:10 PM (MDT) Technical Sessions 6, 7, 8, 9, & 10 and Lightning Session 1 • Session 6: No Bank, No Problem: An Almost Comprehensive **Review of FDOT Alternative Mitigation Strategies for Wildlife** and Resiliency (77, 98, 40, 200) • Session 7: Batting a Thousand (*250, 10, 18, 153) ★ 🔹 Session 10: The 3Cs: Connectivity, Collaboration, Crossings (163, 231, 154, 129) 🔶 🔹 Session 9: Canopy Bridges: A Cost Effective, Under-Utilized Fragmentation Solution for Arboreal Species (62, *105, 177, 61) • Lightning Session 1 (68, 34, *197, 277, *198, 112, 8, 20, 11, 12) 🛉 🔹 Session 8: Connecting the Dots ... Wildlife Fencing and Crossings (120, 41, 275, 253) 2:40 PM (MDT) **Break & Poster Setup** 20 minutes Technical Sessions 11, 12, 13, 14, & 15 and Panel 2 3:00 PM (MDT) • Panel 2: Stitching It Together: Integrating Transportation and Land Use Policies to Support Ecological Connectivity at the Landscape Scale • Session 11: Corridors, Collisions, & Conservation Funding (*30, 193, 123, 194) ★ • Session 15: I Think I Am Being Followed (158, 243, 221, 187) • Session 14: New Voices, New Solutions (178, 132, 282, 217) Session 12: I Get By With a Little Herp From My Friends (38, 262, 136, 134)

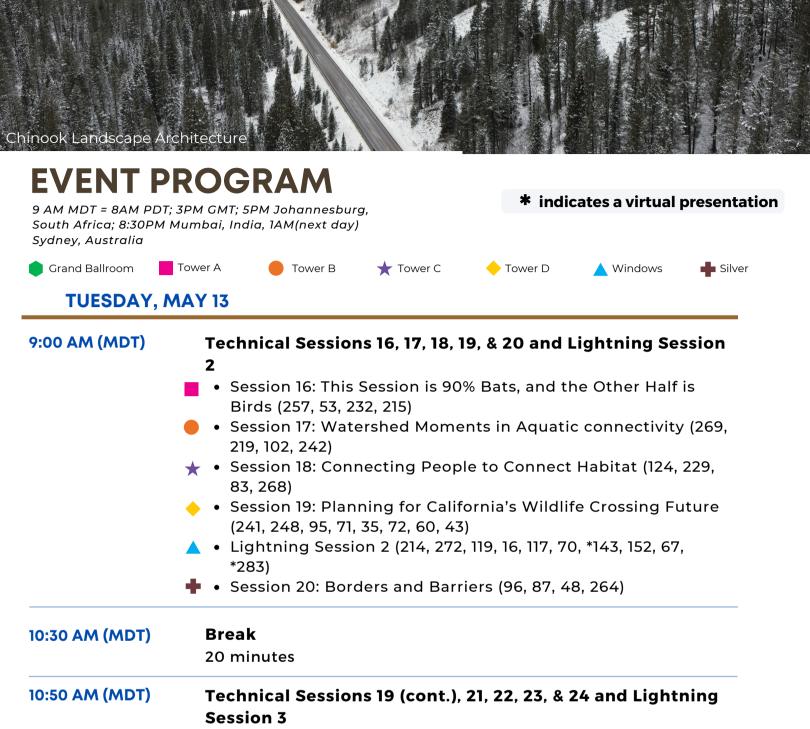
> Session 13: Predictions Are Hard, Especially About the Future (26, 7, 25, 1)

4:30 PM (MDT) End of Technical Sessions

6:00 PM (MDT) Welcome Reception

120 minutes

END OF DAY 1



- Session 21: Lift Each Other Up: Seeing Opportunities & Sawing Barriers (*205, 118, 246, 58)
- Session 22: Nature On the Verge What's the Buzz? (204, *160, *199, 46)
- ★ Session 23: Can't We All Get Along...? Benefiting Wildlife Through Collaboration (142, 175, 84, 109)
- Session 19: Planning for California's wildlife crossing future (Continued - See Order Above)
- Lightning Session 3 (166, 225, 33, 207, 42, 65, 91, 106, 101, 140)
- Session 24: Digital Pathways: Enhancing Wildlife Connectivity Through Technology (23, 238, 281)

12:20 PM (MDT)

Details to come closer to conference

Lunch

EVENT PROGRAM 9 AM MDT = 8AM PDT; 3PM GMT; 5PM Johannesburg, South Africa; 8:30PM Mumbai, India, 1AM(next day) Sydney, Australia

* indicates a virtual presentation

Information on trainings can be found at <u>www.icoet.net/2025/trainings</u>

TUESDAY	, MAY 13 CONTINUED				
I:30 PM (MDT)	Technical Sessions 25, 26, 27, & 28, Panel 3, and Lightning				
1.30 PM (MDT)	Session 4				
	 Panel 3: Connecting Colorado: How Colorado Used a 				
	Statewide Prioritization Process to Implement Wildlife				
	Mitigation Projects				
	 Session 25: A Novel, Methodological Approach to Present 				
	and Future Multi-benefit, Resilient Transportation Design in				
	Yellowstone National Park (64, 247, 165, 99)				
	 Session 26: Building Partnerships to Build Wildlife Crossings (239, 45, 157, 104) 				
	 • Session 28: Global Perspectives From the Roadkill Café (2, 				
	• Session 28. Global Perspectives From the Roadkin Care (2, 161, 180, *170)				
	 Lightning Session 4 (*92, *191, *252, *251, *82, *59, *260, 202, 				
	159, *261)				
	 Session 27: Successes in Crossing Structures: Lessons From 				
	the I-90 Snoqualmie Pass East Project Across Taxonomic				
	Groups and Diverse Measures (21, 22, 208, 121)				
3:00 PM (MDT)	Break				
	20 minutes				
3:20 PM (MDT)	Panel 4, 5, 6, & 7 and Trainings and Workshops				
	 Training: Promising Practices for Community Involvement 				
	in Transportation Ecology				
	 Workshop: Communicating Your Transport Ecology Story to the Community, Engineers and Your Mum: Enthrolling Your 				
	the Community, Engineers and Your Mum: Enthralling Your Audience With a Captivating Blog and Stunning Audio-				
	Visuals				
	 Workshop: From Policy to Practice: Tackling Barriers to 				
	Building Wildlife Crossings				
	 FHWA: Planning and Implementing Wildlife Crossings 				
	Under IIJA				
	 FHWA: Introduction to the Stochastic Empirical Loading and Dilution Model (Location TDD) 				
	 and Dilution Model (Location TBD) Panel 4/5: Collaborative Strategies for Integrating Ecology 				
	into Transportation Projects: Insights From the Duckabush				
	Estuary Restoration/Arach-No-phobia: Perspectives and				
	Results From a Unique, Collaborative Study of Tarantulas in				
	Southeast Colorado				
	🕈 🔹 Panel 6/7: Wild Ways: Designing Connectivity/The				
	Application of Nature-based Solutions (NBS) for				

9 AM MDT = 8AM PDT; 3 South Africa; 8:30PM M Sydney, Australia	3PM GMT; 5F	PM Johannesburg,		* indi	cates a virtual	presentation
Grand Ballroom	Tower A	Tower B	★ Tower C	🔶 Tower D	Vindows	Silver
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5:00 PM (MDT)		er Reception				
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WEDNESDAY, MAY 14

8:00 AM (MDT)	Field Trip Day Orientation
	Details to come closer to conference.
8:30 AM (MDT)	Field Trip Departures (*denotes half day)
	 I-25 Front Range Wildlife Crossings and Riparian Mitigation
	US 34 Big Thompson Flood Resiliency and Stream
	Restoration
	 Rocky Mountain National Park
	 I-70 Mountain Corridor: Genesee to Georgetown Wildlife Crossings
	 State Highway 9 & I-70 East Vail Pass: Locally-driven Wildlife Crossings Projects
	 *Rocky Mountain Arsenal National Wildlife Refuge Wildlife and Birding
	• *I-70 Central Cover Park, 47th & York Pedestrian Bridge Tour

END OF DAY 3

and Heron Pond Open Space Carpio-Sanguinette Park

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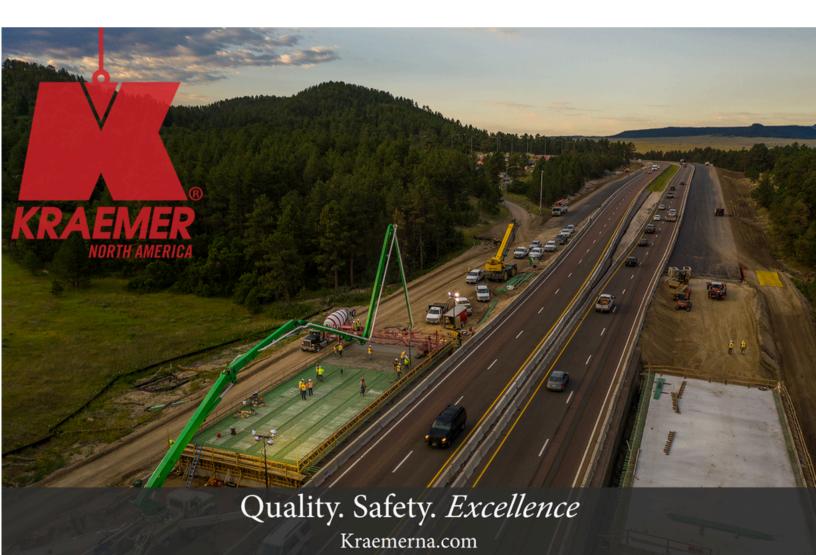
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Grand Ballroom	Tower A 🔴 Tower B ★ Tower C 🔶 Tower D 🛕 Windows 📫 Silver
9:00 AM (MDT)	 Technical Sessions 29, 30, 21, & 32; Panel 8; and Lightning Session 5 Panel 8: Leveraging Training For a Culture of Conservation in Transportation Session 31: Conversations on Conservation Collaboration (151, 240, 156) ★ Session 32: Wildlife Spatial Ecology and Road Systems (276, 90, 168, 107) Session 30: Planning For Climate-informed Wildlife Crossings (115, 110, *56) ▲ Lightning Session 5 (206, 39, 249, 49, 145, 162, 271, 108, 279, *174) ◆ Session 29: (Team)Work Zone Ahead – How Interagency Collaborations are Endeavoring to Improve Our Understanding of How Bats and Bat Habitat are Connected to Transportation Infrastructure (258, 116, 235, 211, 54, 78, 74, 97)
10:30 AM (MDT)	Break 20 minutes
10:50 AM (MDT)	 Technical Sessions 29 (cont.), 33, 34, & 35 and Panel 9 & 10 Panel 9: Wildlife Connectivity Projects and Natural Resource Assessments Panel 10: The Bipartisan Infrastructure Law - A Watershed Moment for Aquatic Organism Passage Session 34: Restoration Can Be Fun-Guys (113, *173, *209, *213) Session 33: California Dreamin': Wildlife Crossing Planning (167, 278, 47, 233) Session 35: Making Way For Moving Mammals (A Nod to Norris) (245, 188, 274, 284) Session 29: Collaborations are Endeavoring to Improve Our Understanding of How Bats and Bat Habitat Are Connected to Transportation Infrastructure (Continued - See Order Above)

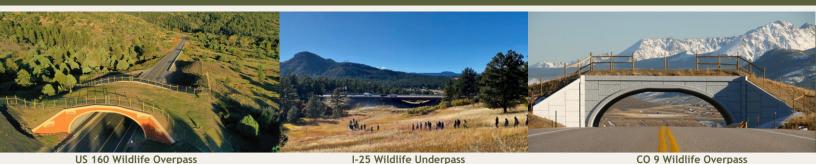


EVENT PROGRAM AM MDT = 8AM PDT; 3PM GMT; 5PM Johannesburg, South Africa; 8:30PM Mumbai, India, 1AM(next day) Sydney, Australia Grand Ballroom Tower A Tower B ★ Tower C Tower D ★ Windows ★ Silver THURSDAY, MAY 15 CONTINUED 12:20 PM (MDT) Plenary Wrap-Up and Introduction to ICOET 2027

Details to come closer to conference

END OF CONFERENCE





CDOT's Bridging Divides Through Collaboration

"Connecting the little pieces to to make a big difference!" - The Colorado Department of Transportation



Kristin Salamack, USFWS/CDOT Arach-No-phobia: Perspectives and results from a unique, collaborative study of tarantulas in southeast Colorado. Join CDOT at the panel presentation to discuss the study of tarantula movements in southeast Colorado.



Mark Lawler, CDOT

CDOT's lynx in-lieu fee fund: Colorado's Department of Transportation has developed an approach that gives them the option to pool funds to mitigate impacts for Canada lynx.



Chuck Attardo CDOT

Connecting Colorado: How Colorado Used a Statewide Prioritization Process to Implement Wildlife Mitigation Projects: I-25/Greenland Wildlife Overpass - Success Isn't Comfortable.





Francesca Tordonato, CDOT Feasibility of Composting as an Alternative Disposal Method for Wildlife Vehicle Collision-Induced Carcasses within Colorado Department of Transportation Processes.



Jason Roth & Anne Hoffman, CDOT

Understanding Bat Use of CDOT Structures: Two species of bats (tricolored and little brown) are proposed to soon be protected by the Endangered Species Act. Learn about Colorado's research to aid the challenges posed by this lack of existing data.

Explore the 2025 ICOET Program for a full list of presentation times and details.



Colorado Parks & Wildlife







= Abstract Number Green Denotes Student Presentation



Exploring wildlife crossing effectiveness on the N4 Toll Route (TRAC N4), Gauteng Province, South Africa

Thabo Innocent Hlatshwayo (Centre for Functional Biodiversity, School of Life Sciences, University of KwaZulu-Natal; Endangered Wildlife Trust), Manqoba Moses Zungu, Wendy Jane Collinson-Jonker, Colleen T Downs



Effects of public roads on wildlife-vehicle collisions in Hluhluwe-iMfolozi Park and iSimangaliso Wetland Park in KwaZulu-Natal, South Africa

Cameron T. Cormac (Centre for Functional Biodiversity, School of Life Sciences, University of KwaZulu-Natal), Colleen T. Downs, Wendy Collinson, Cormac Price, Jarryd P. Streicher, Dave J. Druce



The influence of anthrophony on use of wildlife crossing structures built for ocelots in Texas

Thomas J. Yamashita (Caesar Kleberg Wildlife Research Institute, Texas A&M University), Ashley M. Tanner, Evan P. Tanner, Daniel G. Scognamillo, Michael E. Tewes, John H. Young Jr., Jason V. Lombardil



Failure probability curves for road cut slopes considering the effect of water erosion and variability in the rainfall pattern

Manuel Contreras-Jara (Department of Construction Engineering and Management, Pontificia Universidad Católica de Chile; Research Center for Integrated Disaster Risk Management), Esteban Sáez, Alondra Chamorro Gine, Carlos Bonilla, Jorge Gironas, Tomás Echaveguren, Eduardo Arancibia-Ruiz



Predicting Wildlife Use of Existing Highway Bridges and Culverts Noah Thoron (University of California, Davis), David P Waetjen, Fraser Shilling



eDNA Surveys for Bridge-Roosting Bats Daniel Fisher (Rutgers University), MacKenzie Hall, Brooke Maslo, Robert Kwait, Erin McHale, Morgan Mark, Kathleen Kerwin



Fraser Shilling

Estimating Total Roadkill Rate for a US State Alice Michel (University of California Davis), David Waetjen, Chloe Schaecher,



To What Extent Have the Mandates of Transportation Agencies Improved Regarding the Consideration of Biodiversity? An International Comparison.

Sabrina Mruczek (Concordia University), Jochen A.G. Jaeger



Median Treatment May Impact Wildlife-Vehicle Collisions on California Highways

Lorna Haworth (UC Davis Road Ecology Center), Ben Hodgson, Leo Hecht, Ash Henderson, Laura Morris, Shannon Lemieux, Michelle See, Fraser Shilling



Body condition index of small mammals as an indicator of habitat quality of wildlife crossing structures

Lindsay Millward (Oregon State University), Kristina Ernest



Small Mammal Perception of Risk on Wildlife Crossing Structures Sarah Sanz (Central Washington University), Kris Ernest

See Daily Schedule for Time Slot



= Abstract Number Green Denotes Student Presentation



Computer Vision Automation of Wildlife Monitoring on WSDOT's I-90 Snoqualmie Pass East Project

Vedant Srinivas (Stanford University), Fraser Shilling, Mark Norman, Josh Zylstra



Predicting species assemblages at wildlife crossing structures using multivariate regression of principal coordinates: implications for ocelots in the U.S.A.

Thomas J. Yamashita (Caesar Kleberg Wildlife Research Institute, Texas A&M University), Daniel G. Scognamillo, Kevin W. Ryer, Richard J. Kline, Michael E. Tewes, John H. Young Jr., Jason V. Lombardi



Scale sensitivity of two habitat generalists with applications Matthew Roos (SUNY ESF, Department of Environmental Biology), H. Brian Underwood



Hypernature for Iowa's Rail-Trail Corridors: a typology of enhancements for linear infrastructure in the Corn Belt

Sumaiya Binte Azad (Iowa State University), Austin Dunn, Katharine Shiffler



State Route 152 Pacheco Pass: Working Together for the Benefit of Wildlife

Julie King (Santa Clara Valley Habitat Agency)



Identifying Road Encounter Hotspots of Blanding's Turtle Using Sparse, Unsystematically Collected Data and Behavioral Modeling Tom Langen (Clarkson University), Sean Jackson, Alexandra Burrows, Glenn Johnson



A Unique Solution to Stormwater Challenges. Part of Session: No Bank, No Problem: An Almost Comprehensive Review of FDOT Alternative Mitigation Strategies for Wildlife and Resiliency. Casey Lyon (Florida Department of Transportation)



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Testing the effectiveness of wildlife fences for arboreal mammals Edgar van der Grift (Wageningen University and Research), Nina Villing, Hugh Jansman, Margreet Laar

Multi-disciplinary Design for Habitat Connectivity in the Wildland-Urban Interface of Los Angeles County





Act Locally: Integrating Wildlife Crossings and Connectivity into Municipal and County Plans and Policies in the United States: Examples, Case Studies, and Recommendations

Kylie Paul (Center for Large Landscape Conservation), Nic Callero, Julia Kintsch, Michelle Cowardin, Michael Dax, Kasey Lindstrom, Daniel Estes



Programmatic Consultation for the American Burying Beetle for Nebraska Department of Transportation Projects Jessica Jurzenski PhD (Felsburg Holt & Ullevig), Jeff Hartman PhD, Ben Trenne, Matt Greiner, Justin Luther, Luke Pitts, Brian Yanchik, Charlotte Kucera



Statewide Modeling of Traffic Illumination of Surrounding Habitat Ben Hodgson (UC Davis Road Ecology Center), David Waetjen, Fraser Shilling



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They can't all swim. Identifying where to help wildlife get across 300 miles of the California Aqueduct?

Brock Ortega (Dudek), Shelly Amrhein, Valerie Goodwin, Mike Howard, Mike Henry PhD, Anna Cassady, Alexandria Reed, Lorna Haworth, Autumn Iverson



The Bat Mitigation and Monitoring Plan: A Collaborative Approach to Improving Bat Mitigation Outcomes Jill Carpenter (LSA Associates)



Under the Spans: Investigating bridge use by bats in Wyoming Riley Bernard (Department of Zoology & Physiology, University of Wyoming), Logan Detweiler, Riley Fehr Bernard, Logan William Detweiler, Joshua Franklin Layfield



Modeling climate-driven changes in wildlife movement to inform crossing structure locations that support connectivity now and in the future

Justin P. Suraci (Conservation Science Partners, Inc.), Caitlin E. Littlefield, Patrick T. Freeman, L. Mae Lacey, Julia Kintsch, Matthew Skroch, Nova Simpson, Nicholas Callero, Nathan Jones, Mark Traxler



Interagency cooperation for large-scale broadband infrastructure projects in existing transportation corridors: lessons learned from the California Middle-Mile Broadband Network

David L. Sherer U.(S. Fish and Wildlife Service), Colleen Draguesku, Jennifer Osmondson, Tierra Groff, Jeanette Mar



Gaviota Pass Wildlife Connectivity and Vehicle Collision Reduction Project: California's First Wildlife Crossings Pilot Program Grant Morgan Robertson (Caltrans District 5), Shannon Crossen, Larissa Clarke, Alexandra Thiel. Mitch Dallas



Canopy bridge design: Emerging recommendations from a growing body of literature

Tremaine Gregory (World Wildlife Fund, US; Smithsonian's National Zoo and Conservation Biology Institute), Fernanda Delborgo Abra, Fernanda Z. Teixeira, Birthe Linden, Kylie Soanes, Anna Nekaris, Pamela M.K. Cunneyworth, Inés Azofeifa Rojas, Gabriella da Costa Pereira, Farah Carrasco-Rueda, Gabriella de Costa Pereira, Thais Morcatty



A global review of canopy bridges studies as a tool to mitigate habitat fragmentation

Fernanda Z. Teixeira (Center for Large Landscape Conservation (CLLC)), Fernanda Delborgo Abra, Tremaine Gregory, Birthe Linden, Kylie Soanes, Anna Nekaris, Inés Azofeifa Rojas, Gabriella da Costa Pereira, Farah Carrasco Rueda, Thais Queiroz Morcatti



Primary arteries are obstacles to mountain lion recolonization of eastern North America, as predicted by an individual-based model

Mark Elbroch (Panthera), Thomas W. Glass, Richard Beausoleil, Brian N. Kertson, Benjamin T. Maletzke, Quinton Martins, Marc R. Matchett, T. Winston Vickers, Christopher C. Wilmers, Heiko U. Wittmer, Hugh Robinson

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Climate Change Projections for Fluvial Hazards along the Northeast Entrance Road Corridor in Yellowstone National Park, WY. Thomas C. Walsh, PhD, PE (Jacobs), Tyler Jantzen



Collaborative National Inventory of Wildlife Underpasses on Costa Rican Roads

Daniela Araya-Gambo (PANTHERA), Yosette Araya-Jimenez, Andrea Avila-Alfaro, Esther Pomareda García, Esmeralda Arevalo Huezo, Katia Castro del Valle, Angie Sánchez Nuñez, Karina Rodriguez Saenz, Silvio Boyat, Andrea Induni Vizcaini, Anthony Gomez Portugues, Einer Reyes Martinez, Alejandra Mendez Baez



Connecting people to connect wildlife: A case study from Coyote Valley, CA

Taylor Jang (Peninsula Open Space Trust), Marian Vernon



Building Regional Connectivity for the Santa Cruz Mountains through Collaboration

Bryan Largay (Land Trust of Santa Cruz County), Tanya Diamond, Morgan Robertson



Habitat selection and connectivity of mountain lions (Puma concolor) across anthropogenic barriers on the Olympic Peninsula: a multi-method comparison

Read Barbee (Panthera)



Detection of Listed Bat Species Under Bridges Through the Use of Fecal DNA

Faith M. Walker (Species from Feces Lab, Northern Arizona University), Cory Olson, Susan Dulc, Heather Gates, Cori L. Lausen, Erin Low, Daniel E. Sanchez



Stream Design, Living in a Digital World Nich VanBuecken (Jacobs), Ben Dupuy



FDOT Sunshine Skyway Wave Attenuating Devices (Part of Session - No Bank, No Problem: An Almost Comprehensive Review of FDOT Alternative Mitigation Strategies for Wildlife and Resiliency) Nicole Monies (Florida Department of Transportation (FDOT))



Understanding Bat Use of CDOT Structures

Jason Roth (Colorado Department of Transportation), Anne Hoffman, Grey Buttner, Vanessa Santistevan, Dalton Kidder, Kristin Salamack, Sara BarnasT, Conner Denton, Erik Schmude, Summer Slama, Jeff Peterson



Experience of Implementing the Wildlife Friendly Roads Toolbox for ten years in Costa Rica

Esther Pomareda García (Vías Amigables con la Vida Silvestre-Centro de Rescate Las Pumas), Esmeralda Arévalo Huezo, Daniela Araya Gamboa, Yocelin Ríos Montero, Rosemarie Menacho Odio, Cristina Aguilar Ruiz



Aligning Vision and Tactics to Salvage Florida's Wildlife Corridor (also Part 1 of Partnerships Connecting the Florida Wildlife Corridor) Jason Lauritsen (Florida Wildlife Corridor Foundation)

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Establishing Least Cost Corridors for Safe Passage of Ursus americanus across Interstate 40 in the Pigeon River Gorge, North Carolina, USA. Aurora Wynne (National Parks Conservation Association), Liesl Erb, Steve Goodman



Revisiting US 64 in Eastern North Carolina (ICOET 2015), A Different Approach to Implementing Wildlife Crossings in this Important Landscape

Travis Wilson (North Carolina Wildlife Resources Commission)



Corridors and Conservation Strategies in Florida – A USFWS Perspective Mark Cantrell (US Fish and Wildlife Service)



US-Mexico border wall impedes wildlife movement Eamon Harrity (Sky Island Alliance), Myles Traphagen, Dr. Aaron Facka, Meagan Bethel, Emily Burns, Michael Dax



The multi-scale complexities of wildlife movement: workflows for siting crossing structures using GPS collars and related data

Christina M. Aiello (Oregon State University Department of Fisheries, Wildlife, and Conservation Sciences), Janene Colby, Paige R. Prentice, Nathan Galloway, Sahar Sadegh Malak, Clinton W. Epps, Fraser M. Shilling



The East Bay Wildlife Connectivity Project: How to get pumas (and prey) through three VERY BUSY California highways

Courtney Coon (Alameda County Resource Conservation District), Farley Connelly, Fraser Shilling, Brock Ortega, Sasha Dansky



Unbroken from Canada to Mexico: Is Interstate 5 a Continental Barrier to Wildlife?

Shannon Lemieux (University of California, Davis Road Ecology Center), Laura Morris, Jay Chen, Madison Morgan, Cierra Kelly, Ben Hodgson, Leo Hecht, Fraser Shilling



Predicting Bat Roosts in Bridges using Bayesian Additive Regression Trees

Amy Wray (Fort Collins Science Center, USGS), Jacob Oram, Helen Davis, Luz de Wit, Winifred Frick, Andrew Hoegh, Kathryn Irvine, Patrick Pollock, Andrea Schuhmann, Frank Tousley, Brian Reichert



SR A1A Hurricane Response Zakia Williams (US Fish and Wildlife Service Florida Ecological Services)



In-Stream Ecological Drivers and Impacts of Uncertain Future Hydrological Regimes along the Northeast Entrance Road Corridor in Yellowstone National Park, WY Karen Williams, PhD (Jacobs)



Tait Station Dam Removal - An Innovative Approach to Ecological Lift Joel Thrash (Stantec), Matt Perlik



FDOT Pile Bridge Wildlife Crossings Brent Setchell (Florida Department of Transportation)

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Tackling large challenges by harnessing the power of collaboration from science to implementation: An overview of how a an individual became multiple coalitions focused on getting wildlife crossing structures on I-5 in Washington State

Brian Stewart (Conservation Northwest)



Planning and monitoring canopy bridges for an endangered primate in southern Brazil: enhancing connectivity for arboreal mammals Larissa Oliveira Gonçalves (Systematics and Ecology Lab, Federal University of Rio Grande do Sul), Júlia Beduschi, Talita Menger, Caroline Zank, Andreas Kindel



Developing a Caltrans-approved wildlife fencing attachment for guardrail systems to reduce road mortality and provide habitat connectivity for reptiles, amphibians, and small mammals

Steve Béga (Animex International), Alexandra Thiel



Advancing ecological connectivity, human safety, and wildlife conservation in the Gateway to Yellowstone Liz Fairbank (Center for Large Landscape Conservation), Abigail Breuer, Marcel Huijser



Prioritizing Wildlife Crossing Locations Across Nevada's State Highway System

Nathan Jones (HDR), Julia Kintsch, Nova Simpson, Tanya Diamond, Mark Traxler, Juan Garcia



Exploring Nature Based Solutions for Resilience at Virginia DOT Anna Salzberg (VDOT) and Kelsey Czyzyk (ICF)



The missing link in state wildlife crossing prioritization processes Nicholas Callero (The Pew Charitable Trusts), Nathan Jones, Justin Suraci, Julia Kintsch



Georgia's Bat Programmatic Agreement & Lessons Learned Through Collaboration and Implementation

Ryan Pawlikowski (Georgia Department of Transportation), Morgan Niccoli



Bridging the Great Sonoran Desert Divide: Cooperative Partnerships to Protect Connectivity for Wildlife in the Tucson-Tortolita Mountain Wildlife Linkage in Tucson, Arizona Jessica Moreno (Coalition for Sonoran Desert Protection)



What makes a good wildlife fence? An exploration into implementing and maintaining an effective wildlife exclusion and safe passage project Steve Bega (Animex International), Steve Mars, Kari Gunson



Medium to large mammal use of wildlife crossing structures in the I-90 Snoqualmie Pass East Project

Alison Scoville (Central Washington University), Mark Norman, Josh Zylstra, Glen Kalisz



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Sharing Knowledge of Wildlife-Vehicle Conflict in a Planning Tool to Foster Collaboration

WIII Thoman (Idaho Transportation Department), Patricia Cramer, Julie Hausknecht



Wildlife crossings: Paving the way to sustainable development - A case study from India

Lalit Kumar Sharma (Zoological Survey Of India, Kolkata Hq), Saurav Bhattacharjee



Predicting Florida Panther Movements and Potential Road Crossing Locations within South-Central Florida (2023)

Daniel J. Smith (Center for Landscape Conservation Planning, University of Florida)



Turning Lemons into Lemonade: Breaking Organizational Silos to Increase Wildlife Crossing Planning in the United States National Park Service

Hanem Abouelezz (NPS Washington Support Office (WASO)), Kristy Boscheinen, Michael Mencarini



The LACTWG: crossing borders for environmentally sustainable transport infrastructure in Latin America

Fernanda Z. Teixeira (Center for Large Landscape Conservation (CLLC)), Larissa Oliveira Gonçalves, Talita Menger, Júlia Beduschi, Daniela Araya Gamboa, Esther Pomareda García, Esmeralda Arevalo Huezo, Diego Varela, Clara Grilo, Anthony Clevenger, Juan Carlos Jaramillo Fayad, Victor Colino Rabanal



It's Time for Younger Hands to Lead: YoPro, A Young Professionals Youth Workforce Development STEM Program in Brunswick, Georgia, USA Kimberly Andrews (University of Georgia), Shawn Williams, Ray Daniels, Layla Davis, Andrew Mooring, Chayse Swinson, Athena West, Fraser Shilling



Effectiveness of Amphibian and Reptile Road Crossing Systems: Research, Literature Review and Meta-analysis Cheryl Brehme (USGS Western Ecological Research Center), Robert Fisher



Multiple Turnarounds Increase the Probability that Migrating Salamanders Reach a Passage System in Stanford, CA, USA Brittany Ewing (USGS), Cheryl Brehme, Michael Hobbs, Esther Cole Adelsheim, Robert Fisher



Interstate Collaboration - Colorado/New Mexico I-25 Raton Pass James Hirsch (New Mexico Department of Transportation), Gabriel Cosyleon







Methods to Assess Ecological Lift Associated with Wildlife Connectivity Actions

Sadie McGarvey (Integral Consulting Inc.)



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Delivering a landscape scale connectivity strategy for threatened species on a coastal motorway, investigating overall success through the analysis of operational monitoring data

Chris Thomson (Jacobs Australia), Scott Lawrence, Dr David Rohweder, Simon Wilson



The long and winding road: lessons from project planning and implementation in Wyoming

Corinna Riginos (The Nature Conservancy), Jill Randall, Chris McBarnes, Hall Sawyer, Tom Hart



A New & Substantial Project Acceleration Method at No Additional Cost – Strategic use of Planning and Environmental Linkages (PEL) by State DOTs and MPOs

Ted Devens (Stantec Consulting, Inc.), Theresa Maahs



After the Crossing: Protecting land and incorporating a land back philosophy in order to protect wildlife pathways that lead to crossing structures

Brian Stewart (Conservation Northwest)



Using an automated radio-tracking system as a novel approach to the landscape scale assessment and monitoring of bats on a UK based linear infrastructure project

Chris Kerfoot (Jacobs UK), Charlotte Wevill



Bee-ing Social: Using Social Science to Bridge the Gap Between People, Roadsides, and Biodiversity

Laura A. Warner (University of Florida), Cody Gusto, Sravani Pasula, Jaret Daniels, Anissa Mattox, Sydney Honeycutt, Ricky Telg, Angie Lindsey



Mitigating the roadkill of raptors along a section of the N3 highway through the use of raptor perches, South Africa

Thabo Innocent Hlatshwayo (University of KwaZulu-Natal, Endangered Wildlife Trust), Manqoba Moses Zungu, Wendy Jane Collinson-Jonker, Colleen T Downs



Sir Francis Drake Boulevard Road Improvement Project: A Collaboration and Mitigation Success Story

Timberley Belish (Federal Highway Administration Eastern Federal Lands Highway Division), Tamara Burke



Incorporating Resilient Design for Present and Future Hazards along the Northeast Entrance Road Corridor in Yellowstone National Park, WY: Lessons Learned

Jeff Dobmeier (Jacobs)



A Novel Population Viability Analysis to Evaluate Road Mitigation Designs Philip Gould (USGS Western Ecological Research Center), Cheryl Brehme, Merav Vonshak, Robert Fisher

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Use of road underpasses by timber rattlesnake (Crotalus horridus) and other species of conservation concern point towards an effective design for further implementation in Southern Appalachia

Liz Hillard (Wildlands Network), John Sealy, Sarah McMullen, Kevin Bischof



Fifteen Years of the Largest US WVC Reporting System: the California Roadkill Observation System

Dave Waetjen (UC Davis Road Ecology Center), Fraser Shilling



A multi-tiered assessment of wildlife-vehicle collision risk to inform mitigation

Amy Villamagna, Ph.D. (Plymouth State University), Clara Dawson, Remington Moll, Rebecca Martin, Eric Laflamme, Hyun Joong Kim



Strategies for valuing and restoring ecosystem services of roadside vegetation following large-scale clearing Dr. Ellen Oettinger White (State University of New York College of Environment;

Dr. Ellen Oettinger White (State University of New York College of Environmental Science and Forestry), Dr. Marcia S. Meixler



I-25 Highway Improvement Project Use of Process Based Restoration Techniques to Provide Wildlife Habitat Connectivity and Mitigation for Federally Threatened Species

Patrick Hickey (Jacobs Engineering Restoration Ecologist), Francesca Tordonato



The Reconecta Project: Projeto Reconecta: Bridging the Amazon for the Conservation of Endangered Primates

Fernanda D. Abra (Smithsonian´s National Zoo and Conservation Biology Institute (NZCBI)), Tremaine Gregory, Alfonso Alonso, Marcel Huijser, Marcelo Gordo



Coalition of women assist Costa Rica to build wildlife-friendly roads

Daniela Araya Gamboa (PANTHERA), Esther Pomareda García, Esmeralda Arévalo Huezo, Andrea Ávila Alfaro, Angie Sánchez Nuñez, Karina Rodriguez Saenz, Marcela Sudasassi Vargas, Grettel Delgadillo Molina, Shirley Ramirez Carvajal, Ana Lucía Orozco Rubio, Susana Gutiérrez Acuña, Katya Barrantes Salas



Roadkill-Induced Extirpation of Largest Known Population of Pacific Newts (Taricha spp) Requires Emergency Response Shannon Lemieux (University of California Davis Road Ecology Center), Madison

Morgan, Laura Morris, Selena Cao, Fraser Shilling



6PPD-Quinone: Responding to an Emerging Contaminant Jana Crawford (Jacobs)



Ten years of experience supporting the development of road ecology public policies in Brazil

Larissa O. Gonçalves (Universidade Federal do Rio Grande do Sul), Fernanda Z. Teixeira, Talita Menger, Júlia Beduschi, Caroline Zank, Bibiana Terra Dasoler, Andreas Kindel



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Using tracking data and actionable maps to guide linear infrastructure development for migratory ungulates worldwide

Matthew Kauffman (USGS), Thomas Mueller, Janey Fugate, Melinda Boyers, Buuveibaatar Bayarbaatar, Francesca Cagnacci, Simon Chamaille-Jammes, Nandia Dejid, Elie Gurarie, Grant Hopcraft, Kyle Joly, Petra Kaczensky, Steffen Mumme, Albert Salemgareyev, Wenjing Xu, Wibke Peters, Steffen Zuther, Tim Fullman



Whitetail Whispers; North Idaho Wildlife Crossing Study Daniel Baker (HDR), Mark Traxler



CDOT's lynx in-lieu fee fund Mark Lawler (Colorado Dept of Transportation)



Feasibility of Composting as an Alternative Disposal Method for Wildlife Vehicle Collision-Induced Carcasses within Colorado Department of Transportation Processes Francesca Tordonato (Colorado Department of Transportation)



Buzzing down the highway: Understanding driver segments and their views on pollinator-friendly roadsides Laura A. Warner (University of Florida), Sravani Pasula, Jaret Daniels



No Bank, No Problem: An Almost Comprehensive Review of FDOT Alternative Mitigation Strategies for Wildlife and Resiliency - Wildlife Crossings

Jason Houck (Ardurra)



Road to Recovery – How FDOT and USFWS have partnered to recover the endangered Florida Panther

Florida Department of Transportation



To What Extent Are Rare Species Using ROW Habitats & What Can We Do for Them? GDOT's Program-wide Rare Species Field Verification Effort & Species-specific ROW Management Plan Development

Sujai Veeramachaneni (Georgia Department of Transportation), Carlee Steppe, Hannah Held, Laci Pattavina, James (Mincy) Moffett, Katrina Morris, Katie O'shields, Christopher Goodson



Agency Partnerships and Tools for Streamlining Transportation Consultations

Laci Pattavina (US Fish and Wildlife Services), Eric Prowell, Ryan Pawlikowski, Chris Goodson



Big crossings for little animals: The use of large crossing structures by amphibians and reptiles to cross I-90 in the Snoqualmie Pass area, WA, USA

Jason T. Irwin (Central Washington University)



Studies of fungal communities in pre and post restoration of the I-90 Snoqualmie Pass East Project Wildlife Overcrossing

Helen Lau (US Forest Service Okanogan Wenatchee National Forest), Dr. Jim JohnsonThomas Luehl, Dana Whitmore



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Leveraging Data from Transportation Structure Surveys: How NABat is Supporting Collaborative Assessment and Monitoring of Transportation Structures

Andrea Schuhmann (U.S. Geological Survey, Fort Collins Science Center, North American Bat Monitoring Program), Bethany Straw, Brian Reichert



There and Back Again; A Restoration Journey Kelly Evans (USFS)



Prioritization Methods for APHIS Monitoring of GDOT Bridges During Migratory Bird Nesting Season Carolyn Bryan (AECOM), Sharilyn Meyers, Ashlie Stone, Sujai Veeramachaneni



Northeastern US Habitats and Highways Training Alissa Fadden (The Nature Conservancy), Chris Slesar, Jens Hilke, Jed Merrow



Assessment and Prioritization of Road-Stream Crossings to Restore Aquatic Connectivity Scott Jackson (University of Massachusetts Amherst), Kat Hoenke



Landscape connectivity and spatial ecology for an endangered carnivore: how ocelots move near transportation infrastructure

Sean Kiernan (Caesar Kleberg Wildlife Research Institute, Texas A&M-Kingsville), John Young, Michael Tewes, Trevor Black, Emma Brookover, Elizabeth Grunwald, Tom Langschied, Daniel Scognamillo, William Stephens, Jack Towson, Hunter Vasquez, Thomas Yamashita



Use of the Palmiter Stream Management Technique to Maintain Transportation Infrastructure

Matthew Perlik (Ohio DOT)



Colorado wildlife mitigation and collaborative Context Sensitive Solutions on the I-70 Mountain Corridor as part of the Programmatic Environmental Impacts Statement, highlighting the process for Vail Pass John W. Kronholm (Colorado Department of Transportation)



Collaborating for Connectivity: Multi-Agency Efforts to Remediate Barriers to Wildlife Movement in the Tehachapi Linkage in California Katie Rodriguez (Caltrans), Trish Smith



Filling the Gap - Bat Exclusions on Bridges Prior to Demolition Meghan Lind (Stantec Consulting Services Inc.), Liza Colucci, Tracy White



Conserving land, conserving miles: conservation's role in reducing Vehicle Miles Traveled

Liz O'Donoghue (The Nature Conservancy), Mary Rose Fissinger



A Range-wide Approach to Bat Consultation for Routine Transportation Projects

Sumalee Hoskin (U.S. Fish and Wildlife Service), Catherine Liller, Karen Hallberg, Robin McWilliams, Dan Buford, Charlotte Kucera, Brian Yanchik





Hot Take: Thermal videography can play a critical role in documenting wildlife species demographics and vitality in the face of a major habitat barrier in the Green Mountain State

Melinda Squillace (Hoyle, Tanner and Associates, Inc.), Brogan Morton, Glenn Gingras, Jon Olin, Hoyle, Kelly LaVigne



Advancing Wildlife Connectivity Efforts in Virginia with Bipartisan Infrastructure Law Discretionary Grant Funding Amy Golden (Virginia Department of Transportation), Bridget Donaldson



Navigating the Environmental Challenges during Design and Construction of the Vulture Mountains Recreation Area Marinela Papa (Maricopa County Department of Transportation), Sabra McNeish



The California Wildlife Conservation Board's Wildlife Corridor Program Don Crocker (Wildlife Conservation Board)



A Streamlined Approach to Aquatic Species Consultation on Transportation Projects in Georgia

Matt Carroll (Georgia Dept of Transportation), Morgan Niccoli, Eric Prowell, Chris Goodson, Laci Pattavina, Melissa Rottenberg



Use of GPS Collar Data to plan and prioritize wildlife crossing projects in Wyoming: A Case Study of the Carter Mountain Pronghorn Herd Jill Randall (Wyoming Game and Fish Department), Hall Sawyer, Sam Stephens, Corey Class



Finding evidence of a 70 years old road effect on wildlife at a Complex of Protected Areas, Costa Rica

Daniela Araya-Gamboa (PANTHERA), Roberto Salom Pérez, Yosette Araya Jiménez, Deiver Espinoza-Muñoz, Erika Faubion, Jeremy Quirós-Navarro, Eladio Salazar, Jeffrey Flores Rojas, Kendall Calderón Navarro



Collaborative Strategies for Wildlife Connectivity: Integrating Partnerships, Planning, and Policy in Linear Infrastructure and Urban Development in Utah County

Bettina Cameron (Eagle Mountain Nature and Wildlife Alliance), Wendy Warren



Changes in Future Hydrological Regimes along the Northeast Entrance Road Corridor in Yellowstone National Park, WY Craig Baxter (Jacobs)



Building Bridges for Connectivity: CDFW's Efforts and the Impact of AB 2344

Juan Torres (CDFW)



Living on the edge of the range: time-use metrics of non-traditional hibernacula on the southern edge of a small hibernator

Nathan W. Fuller (US Fish and Wildlife Service), Leah N. Crowley, Samantha Leivers, Catherine G. Haase

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Evaluating Ecological Inputs and Engineering Design to Improve Wildlife Connectivity

Sasha Dansky (Mark Thomas & Company)



What are the critical challenges when a Road Agency fails to implement their own environmental policy? Josie Stokes (City of Gold Coast Council)



An Association of Fish Aand Wildlife Agencies Resolution for B.A.T.S. (Bats and Transportation Structures) Promoting Cooperation With State Transportation Agencies Trina Morris (Georgia Department of Natural Resources), Leanne Burns



Data-based Design – Building Diamondback Terrapin Barriers and Nesting Habitat into Road Construction Kimberly M. Andrews (University of Georgia), Abbey C. Crossman, Chris Goodson



Assessing the Impact of Linear Infrastructure-Induced Habitat Fragmentation on the Diversity, and richness of Urban Bird Populations: A Case Study in Chattisgarh, India ANAM AHSAN (University of Missouri)



Developing Transportation Priorities for the Washington Habitat Connectivity Action Plan Glen Kalisz (Washington State Department of Transportation), Patty Cramer



This is Water: Integrating Ecological Connectivity and Conservation into Water Infrastructure Planning and Design Shannon Crossen (Jacobs), Craig Broadhead, David Allison



Minimizing Railway Construction Impacts to Asian Elephants and other Wildlife with a Comprehensive Mitigation Strategy in Bangladesh: From Planning to Post-Construction Effectiveness Monitoring Norris L. Dodd (Consultant to Asian Development Bank), Asif Imran, Karma Yangzon



Planning Wildlife Crossings at the State Scale Using Spatially Explicit Decision Support Fraser Shilling (Road Ecology Center, UC Davis)



The utility and limitations of mark recapture models in evaluating crossing structure use Ross Hinderer (University of Montana), Hannah Specht, Joshua J. Millspaugh,



Wildlife Crossing Planning Tool / CROS Plan Dave Waetjen (Road Ecology Center, UC Davis), Fraser Shilling

Thomas Hart, Scott Gamo



Technological solutions for reducing wildlife-vehicle collisions: A framework to develop, test, and apply new solutions Tahlia Townsend (WSP Australia), Rodney van der Ree





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Resiliency in the Face of Adversity: a Tale of Climate Change, Infrastructure, Ecological Mitigation and Collaboration Rick Black (SLR International)



Utah's Migration Initiative and Inter-Agency Partnership Implications Makeda Hanson (Utah Division of Wildlife Resources), Matt Howard

The Pew Charitable Trusts works to conserve wildlife corridors and promote wildlife crossings throughout the United States.





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We're setting the standard for fish and wildlife crossings and nature-positive solutions with an interdisciplinary team of ecological connectivity experts. We've successfully delivered hundreds of projects that reconnect fish and wildlife habitat, improve road safety, and prevent wildlife-vehicle collisions.

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Jacobs is proud of the work we have done to support the WSDOT Snoqualmie Pass East Project. Photo provided by Washington Department of Transportation.

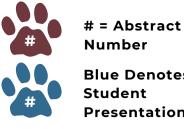
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Spatiotemporal assessment of elk movement across a major highway Brielle Jaglowski (Cal Poly Humboldt), Micaela Szykman Gunther, Carrington Hilson



Wildlife-friendly National Route 253. Guanacaste, Costa Rica Esmeralda Arévalo Huezo (Universidad Latina de Costa Rica), Esther Pomareda García, Daniela Araya Gamboa



Patterns of Population Structure and Gene Flow in a Fragmented **Environment: How Road Infrastructure Impacts Bobcat and Ocelot** Dispersal

Jack Towson (Texas A&M University - Kingsville, CKWRI), John Young, Trevor Black, Trevor Black, Emma Brookover, Elizabeth Grunwald, Thomas Landschied, Sean Kiernan, Daniel Scognamillo, William Stephens, Hunter Vasquez, Thomas Yamashita, Michael Tewes



An investigation into the fracturing of asphalt pavement surfaces using Daikon radishes

Prince Aminu (University of Delaware), Haritha Malladi, Daniel Feinberg



Connectivity at a Crossroads: Evaluating Urban Green Spaces and Linear Infrastructure Effects on Tiger Conservation for Bhopal city, MP, India Anam Ahsan (University of Missouri), DP Srivastava, Dr BS Adhikari, Dr Shekhar Kolipaka



Turtles and The Railway: A Simple Solution for Rail Mortality of Turtles and other Herps. Jessie Johnson (VTrans)



Breaking Barriers: Protecting Wildlife Through Community-Driven Barbed Wire Removal Christie Greene (Wild Aware), Sara Barnas, Einar Jensen



Interagency Collaboration for Wildlife Connectivity in the Northern Appalachians: An Assessment of Current Transportation Planning Actions and Future Opportunities

Alissa Fadden (The Nature Conservancy), Renee Callahan, Marta Brocki



Integrating science and real data into a community-based conservation effort; managing for a mule deer migration route through Eagle Mountain City, Utah.

Todd A. Black, B. Cameron, J.C. Seamons, S.M. Mumford



Identifying the best technology for detecting wildlife on roads and how this could help you.

Steve Bega (Animex International), Gert Hamberg

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Restoring California's Wildlife Connectivity in Region 1 Colton Wise (California Department of Fish and Wildlife), Angela Rehse



Collaborative Strategies for Corridor Conservation in Colorado Michelle Cowardin



Development and assessment of environmental DNA surveying for the federally endangered Salamander Mussel (Simpsonaias ambigua) Christine Stahlman (Stantec Consulting), Nathaniel Marshall, Cody Fleece, Joel Thrash, Matt Perlik, Matthew Raymond



A Feasibility Study of Animal Detection and Driver Warning Systems to Mitigate Animal-Vehicle Conflicts on a Rural Highway in Southwest Virginia

Roe (S. Bell) (Virginia Tech Transportation Insititute), Tarah Crowder, Andrew S. Alden



Aquatic Organism Passage Solutions at Culverts Similar Structures Shane Scott (Principal Biologist)



Challenges when addressing connectivity issues with California's diverse habitat and wildlife

Sara Holm (CA Department of Fish and Wildlife), Juan Torres, Angela Rehse, Sarah Estrella, Michael Sawaya, Skylar Feltman, Benjamin Carter



Structure Surveys for Bats: Emerging Trends in Frequency of Bat Use in North Carolina Bridges & Culverts Cheryl Knepp (North Carolina Department of Transportation)



Restoring California's Wildlife Connectivity, Regional Collaboration to a Statewide Issue.

Colton Wise (California Department of Fish And Wildlife), Juan Torres, Angela Rehse, Sarah Estrella, Sara Holm, Michael Sawaya, Skylar Feltman, Benjamin Carter



Wild Cats on the roads of Costa Rica, 10 years of data Esther Pomareda García (Vías Amigables con la Vida Silvestre-Centro de Rescate Las Pumas), Daniela Araya Gamboa, Esmeralda Arevalo Huezo



Kentucky Transportation Cabinet - Wildlife Vehicle Collsion Reduction Pilot Project Tony Miller (Lochner), Andrew Logsdon, Calvin Andries

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Evaluation of Environmental Measures for the Protection of Wildlife in Costa Rica's Road Network

Daniela Araya-Gamboa (PANTHERA), Susana Gutiérrez Acuña, Fernanda Zimmermann Teixeira, Roberto Salom Pérez, Esther Pomareda García, Yosette Araya Jiménez, Erick Víquez Alvarado, Esmeralda Arévalo Huezo, Silvio Boyat, Jaime Quirós Calderón, Deiver Espinoza Muñoz, Manfred Herrera Díaz, Andrés Zúñiga Garita, Manuel Mairena Jiménez, Katherine Ulate Gómez, Mónica Chavez Ramos, Joseph Lacayo Castrillo, Katherine Chacón, Abigail Corao Retana, Jesús Vado Góngora, Esperanza Gonzalez Mahecha and Priscila Picado Valenzuela



Impact analysis of an Eco-geomorphological design on conventional minor culverts: A study in Northern Mexico.

Armando Ponce de Leon Aldaco (Departamento de Ingenieria Civil, Universidad de Monterrey), Santos Sáenz Delgado, Camilo Cañón Barriga,



Reconnecting Floodplains Along the San Joaquin River, California Jeremy Thomas (Jacobs), Debra Bishop, Michael Founds



Road disturbance: Impact on groundwater flows and ecological integrity of boreal peatlands

Ariane Bouffard (Ministry of Transport and Sustainable Mobility and University of Quebec at Montreal), Marie Larocque, Monique Poulin, Michelle Garneau, Jonathan Chabot-Grégoire, Mathieu Vaillancourt



Wild feline roadkill in Costa Rica

Esther Pomareda García (Vías Amigables con la Vida Silvestre-Centro de Rescate Las Pumas), Daniela Araya Gamboa, Esmeralda Arevalo Huezo



Testing milkweed installation practices for augmentation and restoration along Florida's roadsides

Chase B. Kimmel (Florida Museum of Natural History, University of Florida), Jaret C. Daniels, Ivone de Bem Oliveira, Kristin Rossetti



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Strategies for reducing project-level environmental impacts: understanding different viewpoints on what is most important and feasible.

Margaret Minzner (Ohio, Kentucky, Indiana Regional Council of Governments)



Environmental impacts on pavement rehabilitation Rajashekar Reddy Dudipala (Osmania University)



Assessment and Identification of Wildlife Crash Zones in the US Railroad Network

Elena Sidorova PhD (Southern Colorado Institute of Transportation Technology (SCITT), Colorado State University Pueblo), Saqib Gulzar, Md Rashad Islam PhD



State of the Art Thermal Camera and Radar Technology Based Wildlife Detection and Motorist Warning Systems for Preventing Wildlife Vehicle Collisions on Unfenced Roadways Tim Hazlehurst (CrossTek)



The road to success is paved with collaboration: Insights from Norway Svenja B. Kroeger (Norwegian Institute of Bioeconomy Research (NIBIO))



Restoring California's Wildlife Connectivity: California Department of Fish and Wildlife's Priority Wildlife Connectivity Barriers in the Central Region Michael A. Sawaya (California Department of Fish and Wildlife), David G. Hacker



Planning wildlife barrier fencing and crossings using mountain lion road crossing events vs. roadkills

Rafael Barrientos (Universidad Complutense de Madrid), Guillermo Fandos, Winston Vickers, Travis Longcore, David P Waetjen, Fernando Nájera, Fraser M Shilling



Explaining factors of wildlife-trains collisions and use of underpasses and overpasses not dedicated to wildlife by wild ungulates in north-western France – PhD study currently in progress.

Tess HEYDORFF-DECAUX (SNCF Réseau and LADYSS laboratory)



Balancing Preservation and Recreational Access in the Gateway Segment of Clear Creek Canyon Park Matt Andrews (Muller Engineering Company), Scot Grossman, Moneka Worah



Multi-species occupancy and connectivity modeling for road route planning and mitigation guidance in Southern Brazil

Talita Menger (Road and Railway Ecology Group (NERF), Federal University of Rio Grande do Sul, Precisa Environmental Consulting), Andreas Kindel, Bibiana Terra Dasoler, Fernanda Z. Teixeira, Júlia Beduschi, Larissa Oliveira Gonçalves, Vinicius Bastazini

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Temporary Bridges for Mammals in the UK: Designs, Results, and Lessons Learned

Steve Bega (Animex International), Hattie Taylor, Ian White



Relocating a Rare Crayfish: Jefferson County Crayfish Kayti Ewing (Arkansas Department of Transportation), Maxwell Hartman, Dustin Lynch, Matt Schrum, Lindsey Lewis, Randal Looney



Bridging the Gap Between Ecologists and Transportation Professionals (Engineers, Planners, Operations Staff,...) thru Training Ed Frantz



Wildlife-Friendly Trails: Shared challenges and potential opportunities to adaptively apply wildlife-vehicle conflict solutions to reduce wildliferecreation conflict

Renee Callahan (ARC Solutions), Marta Brocki, Darin Martens



Wildlife connectivity barriers in southeastern California: identifying the problems and finding solutions Benjamin Carter (California Department of Fish and Wildlife)



Restoring California's Wildlife Connectivity, Region 5 Skylar Feltman (California Department of Fish and Wildlife)



California Barriers, San Francisco Bay-Delta Region Sarah Estrella (California Department of Fish and Wildlife)



UNLOCKING ROADKILL DATA: a comprehensive resource to mitigate the impacts of transportation

Clara Grilo (CIBIO, Centro de Investigação em Biodiversidade e Recursos Genéticos, InBIO Laboratório Associado, Campus de Vairão, Universidade do Porto), Tomé Neves, Jennifer Bates, Aliza le Roux, Pablo Medrano-Vizcaíno, Mattia Quaranta, Inês Silva, Kylie Soanes, Yun Wang



Waterbury IM CULV(109) Wildlife Crossing Structure-Vermont's Landscape Level Connectivity Project Funded by IIJA WCPP Jessie Johnson (VTrans)



Collaboration for wetland mitigation to benefit aquatic ecosystems along roadsides in Oklahoma Ricky Wilson (HDR Engineering Inc.), Jared Bechtol

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Using landscape structure and species navigation traits to plan road mitigation: insights from individual-based models

Bibiana Terra Dasoler (Universidade Federal do Rio Grande do Sul), Fernanda Zimmermann Teixeira, Andreas Kindel, Fernando Ascensão, Vinicius A. G. Bastazini "



Wildlife-Detection Driver Warning Systems' Performance Under Two Different Sets of Conditions

Patricia Cramer (Wildlife Connectivity Institute), Robert Hamlin,



Applying Roadside Green Infrastructure for Air Pollution and Climate Mitigation at School-based Projects

Sheila Batka (U.S. Environmental Protection Agency (U.S. EPA) Region 5 Air and Radiation Division), Richard Baldauf, Ken Davidson, Jennifer Tyler, Kathy Kowal, Yulissa Aguilar, Megan Gavin, Marrisa Matsler, Ryder Freed

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Methodology For Evaluating Mitigation Methods To Improve The Resilience Of Road Cut Slopes

Eduardo Arancibia-Ruiz (Pontificia Universidad Católica de Chile), Alondra Chamorro, Manuel Contreras-Jara, Tomás Echaveguren



Herpetofauna as a Model for Studying the Underestimation of Mortality in Small Vertebrates

Tatiane de Mello do Carmo (State University of Rio de Janeiro), Camila S. Barros, Mariana M. Vale, Marcus Vinicius Vieira



Western Toads Use Undercrossing Structures on Interstate 90's Snoqualmie Pass, Washington State, USA

Marianne Hall (Central Washington University), Dr. Jason T. Irwin



Project Deer: A low-cost, Onboard Audiovisual Animal Detection and Driver Alert System to Mitigate WVCs Siddhi Singh (STEM School Highlands Ranch)



Evaluating Wildlife Responses to Highway Infrastructure: A Framework for Reducing Wildlife-Vehicle Collisions

Mahesh Sharma (Colorado State University), Saqib Gulzar, Elena Sidorova, Trung Duong, Md Rashad Islam



Predicting roadkill: a regional-scale model for the Northern Tamandua integrating environmental and road characteristics

Silvio Boyat (Universidad Latina de Costa Rica), Esmeralda Arévalo-Huezo



Recent Wildlife Overpass Innovations Stuart Murphy (Atlantic Industries Limited), Jason Ford, Kevin Williams, Meckkey El Sharnouby, Phil Carroll



Barbed Wire: An Invisible Barrier to Wildlife Movement Christie Greene (Wild Aware)



Designing and implementing an alternative approach to researching wildlife crossings and highway wildlife-vehicle collisions through a community-based lens Christie Greene (Wild Aware), Micheel Horwith

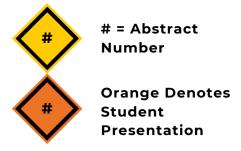
Christie Greene (Wild Aware), Micheal Horwith



Ecosystem Impacts of Water Management Infrastructure: Challenges and Future Directions

Dr. Sofia Prado-Irwin (Center for Biological Diversity), Aruna Prabhala

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Patterns of Domestic Animal-Vehicle Collisions on Tribal Lands in Montana Matthew Bell (Western Transportation Institute), Marcel Huijser



Bats, Bridges, and BMPs Glen Mejia (WSDOT), Kami Koyamatsu, Michael MacDonald, Mike Junor, Abby Tobin



Sustainable bridges Venkatachalam Karthik (Jacobs), Anuja Baheerathan



Updated Wildlife Connectivity Efforts in Caltrans District 7 (Los Angeles and Ventura Counties) Francis Appiah (Caltrans), Celina Oliveri



Let's Get to Work - Electric Vehicle Adoption Leadership Brittney Breen (Forth)



Taking Advantage of Federal Discretionary Grants to Fund Wildlife Projects Sarah Rigard (HDR), Kaitlin Marousis

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Automated Workflow and Dashboard Solutions for Managing Consultant Document Reviews for Georgia Department of Transportation Christina Schmidt (AtkinsRéalis), Dibya Maheswari, Doug Chamblin, Ryan Pawlikowski, Chris Goodson, Morgan Niccoli



Linear Infrastructure In And Around The Nairobi National Park: Reducing Wildlife Deaths

Elisha Akech Ochungo (Multimedia University)



Implementation of Road Access for a Traditional Community within the Atlantic Rainforest in a State Park in São Paulo, Brazil Rita Monteiro Falcao (Companhia Ambiental do Estado de Sao Paulo), Ana Luisa

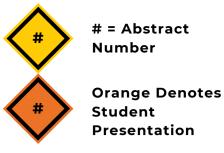
Tondin Mengardo, Eduardo Jun Shinohara, Juliana Moreno Pina, Ticiana Risden Viana, Camilo Fragoso Giorgi



Total Ocelot Inventory and Genetic Monitoring to Inform Ocelot-Transportation Ecology and Conservation Decision-making

Emma Brookover (Texas A&M University), Trevor Black, Spencer Ferguson, Elizabeth Grunwald, Tom Langschied, Peter Marbach, Alynn Martin, Daniel Scognamillo, William Stephens, Hunter Vasquez, Thomas Yamashita, John Young, Jr., Michael Tewes

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ICOET 2001 to ICOET 2025: Perspectives from over Three Decades Working in Transportation and Ecology Ed Frantz (T.Y. Lin International)



Economic Sustainability in Maintaining the Low Volume Rural Roads Dr. S Shankar (National Institute of Technology Warangal)



Road to P.E.L. and Beyond: Getting Transportation Infrastructure Right Kovid Saxena (T.Y. Lin International), Ed Frantz



Navigating coastal challenges: using the federal 12-component planning process to improve coastal resiliency and create seagrass mitigation near Tampa Bay, FL.

Ben Shepherd (AtkinsRealis), Nicole Monies, Brent Setchell



Using Existing Infrastructure to Improve Wildlife Connectivity Steve Bega (Animex International), Ed Parr Farris



Training Diverse Professional Groups in Techniques to Permanently Resolve Roadside Beaver Conflicts in Maine: Challenges and Rewards Chuck Hulsey (Maine Dept. of Inland Fisheries & Wildlife), Scott Lindsay, Ben Nugent



Frogger in the wild: real-life Oregon undercrossing attempts a high score Rachel Wheat (Oregon Department of Fish and Wildlife)



Evaluating Reduction in Monarch Butterfly Roadkill using TxDOT Monarch Flight Diverters (MFDs)

Robert N Coulson (Texas A&M University), James L. Tracy, Carl Bierman, Darlene Goehl, Andrew Birt

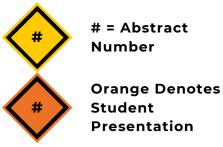


Review of Scientific Field Studies using HALT Technology to Monitoring Small Fauna at the Interface of Transportation Infrastructure and Ecosystems: Advancing Techniques in Transportation Ecology Michael Hobbs (Hobbs Ecology)



Collaborative Strategies for Integrating Ecology into Transportation Projects: Insights from the Duckabush Estuary Restoration Grace Amundsen Barnkow (WSDOT), Theresa Mitchell, Mark Steingrebe, Autumn de la Cruz

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Partnering to enhance wildlife movements across northern Arizona Jeffrey W Gagnon (Arizona Game and Fish Department), Chad D Loberger, Scott C Sprague, Colin A Beach, Brianna Russo, Bill Davenport III, Keith Knutson



Grey 2 Green: Opening a "Habitat Highway" by transforming existing bridges to improve wildlife connectivity

Steve Bega (Animex International), Carolyne Hayes, Scott Munro



Grizzly bear road crossings along US Highway 93, Flathead Indian Reservation, Montana, USA Payton Adams (Confederated Salish and Kootenai Tribes), Marcel Huijser, Samantha

Payton Adams (Confederated Salish and Kootenai Tribes), Marcel Huijser, Samantha Getty



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Utilization of a Noise Attenuation Calibration Model for Concrete Pile Driving in Florida

Raphael Crowley (University of North Florida), Ryan Shamet, Moses Bosco, Consolatha Mushi, Mariam Makoleo, Emily Sapp, James Gelsleichter





Port Graham Fish Passage Program: An Example of Collaboration, Communication, Critical Thinking, and Creativity to Succeed in Remote Alaska

Irene Turletes (HDR), Marguerite Tibbles, Bruce Buzby



Wildlife movement, crossing point use, and mortality along a critical stretch of the 118 Freeway near Los Angeles Celina Oliveri (Caltrans) Joanne Moriarty, Seth P. D. Riley



Site and species-specific habitat features installed at crossing structures increase their effectiveness at providing safe passage Kami Koyamatsu (WSDOT), Glen Kalisz



Six Years of Collaborative Monitoring on a South Texas Roadway: What Have We Learned? Richard J. Kline (University of Texas Rio Grande Valley), Kevin W. Ryer, John H. Young Jr.



Sustainable Maintenance Analysis of Low Volume Rural Roads Using Multi-Criteria Decision-Making

Raji Reddy Myakala (National Institution of Technology), Shankar Sabavath

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Leveraging digitalization to build Sustainable bridges Venkatachalam Karthik (Jacobs), Medha Bansal



Accomplishments from the Asia's Linear Infrastructure safeGuarding Nature (ALIGN) Project

Tremaine Gregory (World Wildlife Fund, US), Sandesh Hamal, Padam Chand, Shova Chhetri, Ekraj Sigdel, Divya Karki, Semina Kafle, Swarnima Shrestha, Elina Shahi, Dipankar Ghose, Pramod Neupane, Ridhima Solanki, Chimeddorj Buyanaa, Gantulga Bayandonoi Selenge Gantumur,Oyun-Erdnen Baarardash, Rob Ament, Megan Parker, Fernanda Z. Teixeira, Melissa Butynski, Christine Weinheimer, Kate Newman, Daniel Hornett, Priscilla Yu, Sergiu Jiduc, Victoria Markovitz, Nilanga Jayasinghe, Shail Joshi, Evan Freund, Mary Melnyk, Vignon Houenou



Transforming Challenges into Solutions: Innovative Mitigation Strategies in the Caltrans Saratoga Creek Bridge Replacement Project

Samuel Aguilar (California Department of Transportation), Mita Nagarkar, Lindsay Vivian



Rare Species Monitoring & A Changing Future for ROW Vegetation Management

Sujai Veeramachaneni (Georgia Department of Transportation), Carlee Steppe, Hannah Held, Laci Pattavina, James (Mincy) Moffett, Katrina Morris, Katie O' Shields, Christopher Goodson



Advancing Rail Infrastructure Resilience Through Integrated Climate Modeling and Vulnerability Mapping

Mequela Moreno (DOT Federal Railroad Administration), Michael Johnson



North Carolina's Next Chapter in Wildlife Passage Partnership Marissa Rodman Cox (NCDOT), Travis Wilson, John Jamison



Lessons learned - NCDOT's Use of Innovative Technologies through Conservation Measures

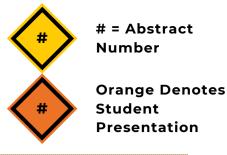
Cheryl Knepp (North Carolina Department of Transportation),



Review of Legal Policy Framework and Capacity Assessment Related to Natural Resource Safeguards in Linear Infrastructures

Bijaya Raj Paudyal (EERC), Dr. Sushila Chatterji Nepali, Ajaya Shrestha, Dr. Roshan Sherchan, Harish Prashad Bhatta, Kumar Dhamala, Kumar Bhattarai, Suresh Bhattarai, Avash Paudel, Annan Shrestha

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Integrating spatial ecological network theory into wildlife crossing design Clara Woodie (Dudek)



Mitigation along major highways can be a priority, but is not necessarily sufficient for conservation Marcel Huijser (Montana State University) ,James Begley



Connecting Roads and Ecosystems: South Jersey Transportation Authority's Commitment to the Environment through Collaborative Initiatives Kailey Howard (SJTA), Lauren Hoolahan (SJTA), Nick Marchese, John McDonnell



Development Model of Urban Ecological Transportation Rajashekar Reddy Dudipala (Osmania University),



The U.S. Geological Survey and Federal Highway Administration collaborate to provide water-quality tools that transportation agencies use to help inform stormwater management decisions Alana B. Spaetzel (U.S. Geological Survey), Gregory E. Granato



Improving Surface Transportation Resilience with Nature-Based Solutions Bret Webb (University of South Alabama), Tashae Thompson, Ben Bowers, Jo Sias



Qualitative Lifecycle Analysis of Rail Tie Materials Briana Litchholt (U.S. DOT), Alicia Zhang, Matthew Simon, Anjuliee Mittelman



Wildlife use of purposefully modified median barriers on I-49 in southwestern Missouri

Brock Ortega (Dudek), Caleb Knerr, David Penning, Jenni Hosey, Christopher Shulse, Craig Switzer, Karne Lane, Fraser Shilling, Clara Woodie, Jeffrey Briggler, Gabe McClain, Cheryl Brehme

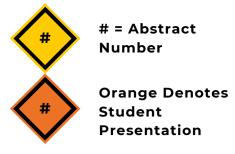


Turtles in Trouble: Recent Lessons Learned in Minnesota Christopher E. Smith (Minnesota Department of Transportation),



Wild animal mitigation along US 160 in southwest Colorado Kenneth Ryan (Muller Engineering), Mark Lawler

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Wildlife Usage of Various Sized Underpass Structures in Eastern North Carolina

Travis Wilson (North Carolina Wildlife Resources Commission)



6PPD-q triggers new focus on stormwater and creates new challenges for ESA consultations

Jeff Dreier (Washington State Department of Transportation)



Innovations In Field Studies for Ecology and Transportation – With Advancing Technology Are We Up to The Challenge? Kimberly Laframboise (HDR Inc.)



Bridging the Divide - appropriate levels of effort for assessing presence of bats roosting in transportation structures and their implications in western North America

Jonathan Janes (HDR Engineering, Inc.; Sacramento State University), Amelia Tauber



Bridging the Gap: Community Strategies to Address Wildlife-Vehicle Collisions and Road Safety Christie Greene (Wild Aware)

Bill Vogrin-CPW



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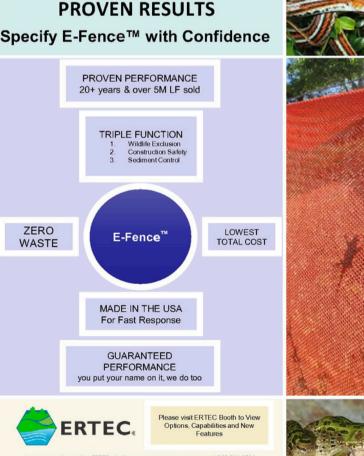
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Mark Thomas is at the forefront of developing innovative solutions to improve connectivity and safety for wildlife. As transportation design experts, we incorporate biological priorities with engineering design considerations to develop improvements that are approvable by state transportation agencies, constructible, and meet the biological needs of area species. CIVIL ENGINEERING STRUCTURES ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE CONSTRUCTION MANAGEMENT PLANNING & URBAN DESIGN GRANT FUNDING ASSISTANCE



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