

# Appendix 1

## ICOET 2003 Final Program

August 24, 2003

Sunday

**12:00 - 5:00 Registration and Check-In - Sunroom Lobby**

**12:00 - 7:00 High Peaks Trek**

New York State DOT biologist Kurt Weiskotten will lead a hike to the summit of Wright Mountain (4,580 ft) in the high peaks. The hike starts from the Adirondack Loj, a short distance from Lake Placid. Participants will carpool to the trailhead. The hike is moderately strenuous and will cover approximately 7 miles roundtrip. Steep sections, mud, and rocky terrain will be encountered. Hiking boots are highly recommended. After reaching the summit, participants will explore above tree line and find remnants of the Air Force B-47 bomber that crashed in the summit in 1962. Participants will arrive back at the Lake Placid Resort in time for dinner.

**1:00 - 6:00 WORKSHOP - Sky Room**

**Environmental Runoff from Construction and Repair Materials into Groundwater Systems (Results of NCHRP 25-09)** *Presented by:* Dan Rozycki, The Transtec Group; Wayne Huber and Andy Pughazhendhi, Oregon State University; and Marcus Quigley, GeoSyntec Consultants, USA

This hands-on, computer-based course details a new, validated methodology to assess the potential environmental impact of construction and repair materials; laboratory test methods to realistically simulate the leaching of construction and repair materials; extensive data sets of laboratory test results; and a software program, IMPACT, that estimates the fate and transport of such leachates in the environment surrounding the highway right-of-way. Participants should bring their own laptop. They will receive a notebook, reports, and a CD-ROM that includes the contents and supporting materials in an interactive form for future self-training purposes. (Pre-registration required, \$75/person)

**6:30 - 7:00 Business Meeting of the TRB Task Force on Ecology and Transportation (ICOET Subgroup) - High Peaks Room**

August 25, 2003

Monday

**6:00 - 7:00 Early Bird Power Walk Around Mirror Lake**

*Led by:* Linda Harvey-Opiteck, NYSDOT Cultural Resource Specialist

**7:30 - 8:30 Continental Breakfast - Grandview Room**

**8:30 - 12:00 PLENARY SESSION - Olympic Room**

**8:30 - 10:00 Welcome & Opening Address**

*Moderator:* Leroy Irwin, Florida Department of Transportation

Leroy Irwin - ICOET 2003 Conference Chair and Manager, Environmental Management Office, Florida DOT, USA

James Townsend - Interim Chairman, Adirondack Park Agency, USA

Mary Ivey - Acting Director, Environmental Analysis Bureau, New York State Department of Transportation, USA

Joseph Boardman - Commissioner, New York State Department of Transportation, USA

Cynthia J. Burbank - Associate Administrator for Planning, Environment, and Realty Services, Federal Highway Administration Headquarters, USA

**10:00 - 10:30 Break - Pool Gazebo**

**10:30 - 12:00 Session 1: International and Federal Activities - Olympic Room**

*Moderator:* Fred Bank, FHWA Headquarters

European Review of Habitat Fragmentation Due to Infrastructure  
(Hans Bekker, Ministry of Transport, Delft, South Holland, The Netherlands)

Results of the Scan Tour on Wildlife Connectivity Across European Highways (Mary Gray, FHWA Headquarters, Olympia, WA, USA)

Transportation Equity Act Reauthorization (Patricia White, Defenders of Wildlife, Washington, DC, USA)

Update on the Surface Transportation-Environmental Cooperative Research Program (Wayne Kober, Wayne Kober Consulting, Dillsburg, PA, USA)  
Update on the Formation of the New Transportation Research Board Task Force on Ecology and Transportation (Thomas Linkous, Ohio Department of Transportation, Columbus, OH, USA)

**12:00 - 1:30**

**Lunch (on your own)**

**1:30 - 3:00**

**CONCURRENT SESSIONS 2A and 2B**

**Session 2A:**

**Wetland Mitigation: Part 1 of 2 - Sky Room**

*Moderator:* Mary Clements, New York State DOT, USA

Guidance for the Selection of Compensatory Mitigation Options: Results from the NCHRP Project 25-16 (Xavier Riva, A. D. Marble & Company, Conshohocken, PA, USA)

Restoration of an 1,800-Acre Prairie Pothole Wetland Complex in Northwestern Minnesota (Robert Jacobson, Minnesota Department of Transportation, St. Paul, MN, USA)

**Session 2B:**

**Achieving Habitat Connectivity - Olympic Room**

*Moderator:* Kyle Williams, New York State DOT, USA

Rapid Assessment Process for Determining Potential Wildlife, Fish and Plant Linkages for Highways (Bill Ruediger, USDA Forest Service, Missoula, MT, USA)

Innovative Partnerships that Address Highway Impacts to Wildlife Connectivity in the Northern Rockies (Deborah K. Davidson, American Wildlands, Bozeman, MT, USA)

Wildlife Linkage Areas: An Integrated Approach for Canada Lynx (James Claar, USDA Forest Service, Northern Region, Missoula, MT, USA)

Human Transportation Network as an Ecological Barrier for Wildlife on Brazilian Pantanal-Cerrado Corridors (Wagner A. Fischer, ONG Estrada Viva/NGO "Living Roads," Brasilia/DF, Brazil)

**3:00 - 3:30**

**Break - Pool Gazebo**

**3:30 - 5:00**

**CONCURRENT SESSIONS 3A and 3B**

**Session 3A: Aquatic Ecosystems: Part 1 of 2 - Sky Room**

*Moderator:* Tom Linkous, Ohio DOT, USA

Collaborative Research and Watershed Management for Optimization of Forest Road Best Management Practices (Mark Riedel, USDA Forest Service Southern Research Station, Otto, NC, USA)

Aquatic Habitat Enhancement for Mad River and Beaver Pond Brook in Conjunction with the Reconstruction of 1-84 in Waterbury, CT (David Nyman, ENSR International, Westford, MA)

Texas Connects Watershed Protection and Erosion Through Compost (Barrie Cogburn, Texas Department of Transportation, Austin, TX, USA)

**Session 3B: Primitive Roads - Olympic Room**

*Moderator:* Amanda Hardy, Western Transportation Institute, USA

Protecting and Restoring Riparian Area Structure and Function Along Forest Highways and Low Volume Roads (James E. Doyle, USDA Forest Service, Mountlake Terrace, WA, USA)

Forest Road Reengineering to Restore Riparian Meadow Conditions in the Zuni Mountains of New Mexico (Roy Jemison, USDA Forest Service, Albuquerque, NM, USA)

Intensity of Human Use, Backcountry Roads and Analysis of Human Accessibility (Raymond Watts, US Geologic Survey, Fort Collins Science Center, Fort Collins, CO, USA)

Hydrologic, Geomorphic and Ecological Impacts of Road Removal (T. Adam Switalski, Wildlands CPR, Missoula, MT, USA)

**5:00**

**Adjourn**

**6:00 - 8:00**

**Welcome Reception & Exhibits (exhibits will be on display through Thursday)**

August 26, 2003

Tuesday

**6:00 - 7:00**

**Early Bird Power Walk Around Mirror Lake**

*Led by:* Linda Harvey-Opitck, NYSDOT Cultural Resource Specialist

- 6:30 - 8:00**      **Early Morning Bird Walk**  
*Led by:* Kurt Weiskotten, NYSDOT Biologist  
 Not to be confused with the “Early Bird Power Walk,” this outing is for anyone who would like to go in search of resident birds of the Adirondacks. Bird watchers on this trek will visit the Johns Browns Farmstead Site, which is an excellent spot for birds. Carpooling will be required to travel the two miles to the site. Participants will return in time for breakfast and the first sessions.
- 6:30 - 8:00**      **Breakfast Meeting of the TRB Task Force on Ecology and Transportation - Birch Bar**
- 7:30 - 8:30**      **Continental Breakfast - Grandview Room**
- 8:30 - 10:00**      **CONCURRENT SESSIONS 4A, 4B, and 4C**
- Session 4A: Using Technology in Planning - Sky Room**  
*Moderator:* Trisha White, Defenders of Wildlife, USA  
 Efficient Transportation Decision Making: Florida’s ETDM Process (Thomas H. Turton, URS Corporation, Tampa, FL, USA)  
 Florida’s Environmental Screening Tool: Laying the Technology Foundation for Efficient Transportation Decision Making (Ruth Roaza, URS Corporation, Tallahassee, FL, USA)  
 Mapping Wildlife Needs in Florida: The Integrated Wildlife Habitat Ranking System (Mark J. Endries, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA)
- Session 4B: Vegetation and Roadsides - Olympic 1, 2**  
*Moderator:* Elisabeth Kolb, New York State DOT, USA -  
 Roadside Review of Vegetation Problems, Policy, and Applied Research (Bonnie Harper-Lore, FHWA Headquarters, Washington, DC, USA)  
 Effects of Soil Disturbance from Roadworks on Roadside Shrub Populations in South-Eastern Australia (Peter Spooner, Charles Sturt University, Albury, New South Wales, Australia)  
 Management of a Federally Listed Plant Species in the Highway Right of Way (Marion Carey, Washington State DOT, Olympia, WA, USA)  
 Adirondack Park GIS Interactive Non-Native Invasive Plant Species Project (John Falge, New York State DOT, Region 7, Watertown, NY, USA)
- Session 4C: Aquatic Ecosystems: Part 2 of 2 - Olympic 3,4**  
*Moderator:* John Fisher, CTE, NC State University, USA  
 Restoration of an Upper Headwaters Coldwater Ecosystem in Western Maryland Utilizing Passive Treatment Technologies *Part 1-Meeting NPDES Standards; Part 2-Restoring a Native Trout Population* (Andy Brookens, Skelly and Loy, Inc., Hagerstown, MD, USA)  
 New York State Department of Transportation Soil Bioengineering and Biotechnical Engineering Design Guidance and Specifications (Stephen Radzysinski, New York State DOT, Albany, NY, USA)  
 Spooner Creek Restoration and Fish Ladder (Thomas Moore, New York State DOT, Buffalo, NY)
- 10:00 - 10:30**      **Break - Pool Gazebo**
- 10:30 - 12:00**      **CONCURRENT SESSIONS 5A, 5B, and 5C**
- Session 5A: Using Technology in Assessment - Sky Room**  
*Moderator:* James Martin, CTE, NC State University, USA  
 Oregon Department of Transportation’s Salmon Resource and Sensitive Area Mapping Project – A High-Tech Procedure for Capturing, Synthesizing and Displaying Biological Resource Data (Robert Carson, Mason, Bruce & Giard Inc., Portland, OR, USA)  
 Integration of GIS and GPS to Showcase Endangered Species and Transportation Initiatives in Georgia (Robert Baffour, Clark Atlanta University, Atlanta, GA, USA)  
 Utilizing Geographic Information System Throughout the Design and Permitting Process (Christopher C. Salvatico and Laren Myers, McCormick, Taylor & Associates, Inc., Philadelphia, PA, USA)

**Session 5B: Design and Construction of Aquatic Organism Passage at Road-Stream Crossings - Olympic 3, 4**

*Moderator:* MaryEllen Papin, New York State DOT, USA

Introduction to Stream Simulation for Aquatic Organism Passage at Road Crossings (Scott Jackson, University of Massachusetts, Amherst, MA, USA)

Geomorphology and Site Assessment for Aquatic Organism Passage Design (Kim Clarkin, USDA Forest Service, San Dimas, CA, USA)

Aquatic Organism Passage Design Process (Bob Gubernick, USDA Forest Service, Petersburg, AK, USA)

Construction Challenges and Case Studies (Kim Johansen, USDA Forest Service, Eugene, OR; and Mike Edgerly, Consulting Engineer, Vancouver, WA, USA)

**Session 5C: Large Mammals: Part 1 of 2 - Olympic 1, 2**

*Moderator:* Peter Howard, New York State DOT, USA -

Large Animal-Vehicle Collisions in the Central Canadian Rocky Mountains: Patterns and Characteristics (Kari E. Gunson, Parks Canada, Banff, Alberta, Canada)

Frequency and Distribution of Highway Crossing by Kenai Peninsula Brown Bears (Tabitha Graves, University of Montana, Missoula, MT, USA)

Resolving Landscape-Level Highway Impacts on the Florida Black Bear and Other Listed Wildlife Species (Letitia Neal, Florida DOT, Deland, FL; Lisa Grant, St. Johns River Water Management District, Palatka, FL; and Tom Roberts, EMS Scientists, Engineers, Planners, Inc., Altamonte Springs, FL, USA)

**12:00 - 1:30**

**Lunch (on your own)**

**1:30 - 3:00**

**CONCURRENT SESSIONS 6A, 6B, and 6C**

**Session 6A: Fisheries - Sky Room**

*Moderator:* Stephen Radzysinski, New York State DOT, USA

Protection of an Endangered Fish, TOR TOR and TOR Putitora Population Impacted by Transportation Networks in the Area of Tehri Dam Project, Garhwal Himalayas (Ramesh C. Sharma, Garhwal University, Srinagar-Garhwal, Uttaranchal, India)

Inventory of Fish Passage at Selected Culverts on the Hoonah Ranger District, Tongass National Forest (Chris Riley, Beaverhead-Deerlodge National Forest, Ennis, MT, USA)

Adverse Effects to Fish of Pile-Driving: Implications for ESA and EFH Consultations in Pacific Northwest (Barbara Wood, NOAA Fisheries, Lacey, WA, USA)

**Session 6B: Amphibians and Reptiles: Part 1 of 2 - Olympic 3, 4**

*Moderator:* Sandra Rapp, New York State DOT, USA

Amphibian Mitigation Measures in Central Europe (Miklós Puky, The Institute of Ecology and Botany, Göd, Pest County, Hungary)

Frog Fence Along Vermont Rt. 2 in Sandbar Wildlife Management Area: A Collaboration Between Vermont Agency of Transportation and Vermont Agency of Natural Resources (Nelson Hoffman, Vermont Agency of Transportation, Montpelier, VT, USA)

Highway Mortality of Turtles and Other Herpetofauna at Lake Jackson, Florida, USA, and the Efficacy of a Temporary Fence/Culvert System to Reduce Road Kills (Matthew Aresco, Florida State University, Tallahassee, FL, USA)

**Session 6C: Wetland Mitigation: Part 2 of 2 - Olympic 1, 2**

*Moderator:* Mary Clements, New York State DOT, USA

In-Lieu Fee Mitigation: A Public/Private Partnership for Improved Wetland Mitigation (Mary Gray, FHWA Headquarters, Olympia, WA, USA)

Strawberry Island Phase III: A Case Study in the Successful Application of In-Lieu Fee Mitigation (Timothy Spierto, New York State Department of Environmental Conservation, Buffalo, NY, USA)

Wetland Mitigation Issues Related to the Reconstruction of U.S. Highway 93 on the Flathead Indian Reservation (Mary Price, Confederated Salish and Kootenai Tribes, Pablo, MT, USA)

**2:00 - 5:00**

**POSTER SESSION - Pool Gazebo**

Collisions Between Large Wildlife and Motor Vehicles in Maine, 1998-2001  
Robert Van Riper, Maine Department of Transportation, Augusta, ME, USA

Cooperative Approach to Reduce Turtle Mortality on New York State Route 21  
Mary E. Papin, New York State Department of Transportation, Region 4, Rochester, NY, USA

ElectroBraid Fencing for Use as a Deer Barrier  
Thomas Seamans, USDA Wildlife Service, Sandusky, OH, USA

Effectiveness of Forest Road Best Management Practices to Enhance and Protect Water Quality in the Southern Appalachians  
Mark Riedel, USDA Forest Service, Southern Research Station, Otto, NC, USA

Establishing Criteria to Evaluate Mitigation Measures for Reducing Wildlife-Vehicle Collisions  
Susan Wells, University of Wyoming - Laramie, Jackson, WY, USA

Growth Management in Washington State: Transportation Concurrency, Induced Growth, and Endangered Species Act Indirect Effects  
Brian Bigler, Washington State Department of Transportation, Seattle, WA, USA

Improving Native Bird Habitat Along the Lake Ontario State Parkway  
Amy Kahn, New York State Department of Transportation, Region 4, Rochester, NY, USA

Innovative and Elegantly Simple Ways to do Something for Bluebirds (And Take a Little Time Away from Transportation Maintenance Duties)  
Jim Wicks, New York State Department of Transportation, Region 4, Rochester, NY, USA

Investigating Wildlife Use of Underpasses Under I-87: Science and the Perils of Publicity  
Justina Ray et al., Wildlife Conservation Society, Bronx, NY, USA

New York State Department of Transportation Adirondack Park Projects  
Peter Howard, New York State Department of Transportation, Region 1, Albany, NY, USA

Partnering to Reduce Deer-Vehicle Collisions: Improving Management of the "Deershed"  
Brent Haglund, Sand County Foundation, Madison, WI, USA

Regional Planning and Habitat Conservation Plans for Transportation Streamlining: Big Picture Concepts for Long-Term Benefits  
Emily Teachout, US Fish and Wildlife Service, Lacey, WA, USA

Species-Specific Behavioral Responses of Snakes to Road Encounters  
Kimberly Andrews, University of Georgia, Aiken, SC, USA

The Adirondack Invasive Plants Project  
John Falge, New York State Department of Transportation, Region 7, Watertown, NY, USA

Using Geographic Information Systems (GIS) Technology to Study the Impacts of Roads on Canada's National Parks  
Michael Seaby, Public Works and Government Services Canada, Gatineau, Quebec, Canada

**3:00 - 3:30**

**Break - Pool Gazebo**

**3:30 - 5:00**

**CONCURRENT SESSIONS 7A, 7B, and 7C**

**Session 7A: Animal-Vehicle Collision Reduction: Part 1 of 2 -Olympic 1, 2**

*Moderator:* Bill Ruediger, USDA Forest Service, USA

Evaluation of Roadway Animal Detection System Along Highway 191 in Yellowstone National Park (Marcel P. Huijser, Western Transportation Institute, Bozeman, MT, USA)

The Wildlife Protection System: Early Successes and Challenges Using High-Powered Infrared Technology to Detect Deer, Warn Drivers and Monitor Behavior (Nancy Newhouse, Sylvan Consulting Ltd, Invermere, British Columbia, Canada)

Results of Recent Activities of the Deer-Vehicle Crash Information Clearinghouse (Keith Knapp, University of Wisconsin-Madison, Madison, WI, USA)

### **Session 7B: Amphibians and Reptiles: Part 2 of 2- Olympic 3, 4**

*Moderator:* Susan Hagood, Humane Society of the United States

The Preservation of Bog Turtle Metapopulation Dynamics by a Transportation Improvement Project in Southeastern Pennsylvania (Teresa McElheny, Skelly and Loy, Inc., Harrisburg, PA)

Endangered Species Protection Efforts Through Design and Into Construction (Christine Howsare, McCormick, Taylor & Associates, Inc., Philadelphia, PA, USA)

Mitigating Potential Impacts of Herptile Habitat Loss and Fragmentation from New Roadway Construction in Southern New York State (Ed Samanns, The Louis Berger Group, Inc., East Orange, NJ, USA)

### **Session 7C: WORKSHOP - Sky Room**

#### **Engaging Communities in Wetlands Conservation Projects**

*Presented by:* Leah Miller, Izaak Walton League of America, Gaithersburg, MD, USA

This workshop presents the Izaak Walton League's American Wetlands Campaign as an example of an effective partnership among government agencies, nonprofit organizations, and communities. The session also includes a discussion of practical methods that can be used to engage volunteers and other organizations in the conservation work involved with transportation projects, with a focus on projects involving wetland impacts (although the information can be applied to other ecology and transportation projects as well). Successful projects and lessons learned will be outlined. Participants will have an opportunity to share their experiences working with volunteers, and share ideas for additional ways to incorporate partnerships into transportation projects.

August 27, 2003

Wednesday

- 6:00 - 7:00**      **Early Bird Power Walk Around Mirror Lake**  
**Led by: Linda Harvey-Opiteck, NYSDOT Cultural Resource Specialist**
- 7:00 - 8:30**      **Breakfast (on your own)**
- 7:30 - 4:00**      **FIELD TRIPS; box lunches and snacks provided.**  
**Organized and led by the host agency: New York State DOT.**

New York State DOT has organized and will lead two day-long field trips for ICOET participants. Both field trips begin in Lake Placid with a ride to the Adirondack Scenic Railroad. Participants can enjoy a cup of coffee or hot chocolate as they wait to board the train, which will take them to Saranac Lake. While en route, participants will learn about New York State DOT's efforts to reopen the historic train corridor that winds through the beautiful North Country wilderness. Vegetation management, wetland protection, and partnership development will be key topics of discussion. Once in Saranac Lake, the group will split in two and leave by bus on separate trips (as described on next page). Buses will return to the Lake Placid Resort by 4:00 p.m.

#### **ICOET Field Trip Descriptions**

##### **Trip 1    *Transportation Challenges in the Adirondacks***

##### **Westward Route: Tupper Lake, Adirondack Fish Hatchery, Adirondack Visitor Center**

The trip begins with stops along Routes 3 and 30 south of Saranac Lake to look at highway engineering solutions to protect Adirondack wetlands and to provide access for boating and fishing recreation. We will visit the Franklin County Sub-Residency to discuss environmental operations in the area, including sand and salt issues, invasive plant species control, and highway maintenance. Participants will then travel to Tupper Lake to investigate the Route 30 causeway realignment project and associated wetland mitigation and ecological issues. Consideration of sensitive environmental alternatives will be explored.

The group will then travel north to the Fish Creek State Campground for lunch. Adjacent to the campground is the Route 30 over Fish Creek Pond project, which will be visited after lunch. This project includes wetland mitigation, retaining walls, and an innovative bike/ped path, all of which involved intensive partnering efforts. The next stop is at the NYSDEC Adirondack Fish Hatchery ten miles north. DEC staff will be on hand for a guided tour of the facility and an account of the unique history of the operation, including stocking of fish by train in 1903!

The final stop of the trip is at the Adirondack Visitors Center in Paul Smiths. A tour of the spacious center and a short but outstanding slide presentation will prepare you for a walk through a bog on an extensive boardwalk in search of pitcher plants, bog rosemary, black-backed woodpeckers, and gray jays. After leisurely enjoying the beauty and peace of the Adirondack wilds, we will return to Lake Placid in time for dinner.

## **Trip 2 Transportation Challenges in the Adirondacks**

### **Northward Route: Au Sable River, High Peaks, Whiteface Mountain**

The trip begins by driving back through Lake Placid and then south to visit the Adirondack Loj. The Loj property, owned by the Adirondack Mountain Club (AMC), serves as a starting point for day and backpack hikes into the heart of the High Peaks. After visiting the facilities, participants will hear from New York State Department of Environmental Conservation (NYSDEC) and AMC personnel regarding the recently released Unit Management Plan for the High Peaks Area. Increased use of the high peaks is threatening the fragile ecosystem, and the role and impact of highways in the Park will be discussed.

After leaving Adirondack Loj, a short stop will be made alongside the Cascade Lakes to investigate NYSDOT research that is being conducted concerning highway impacts to the lake systems and resident endangered species. From Cascade Lakes, the group will travel north on Route 86 along the Au Sable River to the Wilmington Notch Campground for lunch and a discussion with an NYSDEC fisheries biologist regarding impacts of highway sand and salt applications upon fish populations in Adirondack streams and rivers.

After lunch, participants will travel north to the Atmospheric Research Center at Whiteface Mountain for a guided tour of this state-of-the-art scientific station to hear about current atmospheric research in the North Country and how transportation is affecting wildlife and forests. Also at this stop, biologists from the NYSDEC and the State University of New York College of Environmental Science and Forestry will be on hand to discuss the status of Adirondack moose, and the impacts of highways on their population. The lynx reintroduction project will also be discussed. You will learn of the immense impact that highways had on the project.

The “high point” of the trip will follow as the group travels up the Whiteface Mountain Veterans Memorial Highway to the summit at 4,876 feet. The environmental hurdles to build such a road today would be formidable. We will be escorted on our trip by a knowledgeable guide who will divulge the amazing history of the highway dedicated in 1935 by Franklin D. Roosevelt. Grand views above the tree line await as the group takes its time sightseeing before leaving for Lake Placid.

Special thanks to the USDA Forest Service who funded the transportation for the field trips.

### **6:00 - 9:00 COOKOUT at the Lake Placid Resort Golf House** *Sponsored by: URS Corporation, USA*

Hot dogs, hamburgers, and chicken will be on the grill at the Lake Placid Resort Golf House overlooking the mountains and Olympic ski jump. This is an opportunity to socialize, network, and hear about the history of the Adirondacks region from renowned local storyteller Bill Smith. The golf house is a pleasant 25- to 30-minute walk from the LPR main lobby (maps are located at the front desk). Also, a 30-person trolley will run every 20 minutes from 5:45 to 6:45, and again from 8:15 to 9:15. If you prefer to drive, ample parking is available as well.

August 28, 2003

Thursday

#### **7:30 - 8:30 Continental Breakfast - Grandview Room**

#### **8:30 - 10:00 CONCURRENT SESSIONS 8A, 8B, and 8C**

##### **Session 8A: Transportation Planning for Sustainability- Sky Room**

*Moderator:* Trisha White, Defenders of Wildlife, USA

Planning for Sustainable Transport System: Targets, and Indicators for Natural and Cultural Heritage Values in the Transport System (Lars Nilsson, Swedish National Road Administration, Borlange, Darlana, Sweden)

Addressing “Behind the Scenes” Ecological Concerns Associated with the Design, Construction, Operation and Maintenance of an Urban Transportation System: A New York City Transit Perspective on Sustainability (Ajay Singh, New York City Transit, New York, NY, USA)

Measures Applied to Mitigate Habitat Fragmentation in Spain (Carne Rosell, Spanish Coordination of COST 341 Habitat Fragmentation Due to Infrastructure, Barcelona, Spain)

The Emergence of “Road Ecology” (Richard T.T. Forman, Harvard University, Cambridge, MA)

##### **Session 8B: Monitoring of Crossing Structures: Part 1 of 3 - Olympic 1, 2**

*Moderator:* Bill Ruediger, USDA Forest Service, USA

Effectiveness of Wildlife Crossing Structures and Adapted Culverts on a Highway in Northwest Spain (Cristina Mata, Universidad Autonoma, Madrid, Spain)

Long-Term, Year-Round Monitoring of Wildlife Crossing Structures and the Importance of Temporal and Spatial Variability in Performance Studies (Anthony Clevenger, Western Transportation Institute, Bozeman, MT, USA)

Planning for Wildlife Passages and Methods to Assess their Performances (Amanda Hardy, Western Transportation Institute, Bozeman, MT, USA)

**Session 8C: Animal-Vehicle Collision Reduction: Part 2 of 2 - Olympic 3, 4**

*Moderator:* Elisabeth Kolb, New York State DOT, USA

Research into Wildlife/Vehicle Collisions in Jasper National Park (Jim Bertwistle, Jasper National Park, Jasper, Alberta, Canada)

Model for Estimating Wildlife Mortality on Roads and Its Implications for Mitigation and Management (Natasha C. Kline, National Park Service, Tucson, AZ, USA)

Predictive Models for the Location of Animal-Car Accidents and their Applicability to Mitigative Measures (Juan E. Malo, Universidad Autonoma, Madrid, Spain)

**10:00 - 10:30**

**Break - Pool Gazebo**

**10:30 - 12:00**

**CONCURRENT SESSIONS 9A, 9B, and 9C**

**Session 9A: Environmental Stewardship - Sky Room**

*Moderator:* Jeff Weller, US Fish and Wildlife Service, USA

Blue Ball Properties: Initiating Responsible Environmental Stewardship (Jayne E. McColl and Dorothy Daly, McCormick Taylor & Associates, Inc., Philadelphia, PA, USA)

Auditing and Control Programs: Putting EIA Recommendations for Ecological Impacts Prevention in Practice (Rosa Arce-Ruiz, University of Madrid, Madrid, Spain)

Building Partnerships for Incorporating Roadside Environmental Stewardship Best Practices Into Highway Maintenance Programs (Kyle Williams, New York State DOT, Albany, NY, USA)

Prairie Passage: Restoring Prairie Communities Along Highway Corridors from Canada to Mexico (Robert Jacobson, Minnesota DOT, St. Paul, MN, USA)

**Session 9B: Monitoring of Crossing Structures: Part 2 of 3 - Olympic 3, 4**

*Moderator:* Christopher Servheen, US Fish and Wildlife Service, USA

Evaluation of Measures to Minimize Wildlife-Vehicle Collisions and Maintain Permeability Across Highways in Arizona, USA (Norris Dodd, Arizona Game and Fish Department, Pinetop, AZ, USA)

Mule Deer Response to an Underpass in Nugget Canyon, Wyoming (Paul Garrett, FHWA Headquarters, Denver, CO, USA, and Kelly A. Gordon, University of Wyoming, Laramie, WY, USA)

Monitoring the Use of Slaty Creek Wildlife Underpass in the Calder Freeway, Black Forest, Macedon, Victoria, Australia (Rodney Abson, Centre for Sustainable Regional Communities, Bendigo, Victoria, Australia)

Influence of Predator and Prey Relationships on Wildlife Passage Evaluation (Stuart J. Little, Planning NSW, Sydney, New South Wales, Australia)

**Session 9C: Context-Sensitive Solutions - Olympic 1, 2**

*Moderator:* Pauline Burnes, New York State DOT, USA

Federal Lands Highway Experience and Initiatives with Context-Sensitive Solutions (Donald Tuggle, FHWA Eastern Federal Lands Highway Division, Sterling, VA, USA)

Context Sensitive Approach to Highway Development in Coastal Louisiana (Chris Gesing, Michael Baker Jr., Inc., Moon Township, PA, USA)

Roadway Design with the Environment in Mind: A New Process for Pima County, Arizona (Lisa K. Harris, Harris Environmental Group, Inc., Tucson, AZ, USA)

Geosynthetics Facilitate Road Construction and Mitigate Environmental Impact in Amazon Basin Rainforest: 10 Years of Performance (Ronald P. Anderson, Tensar Earth Technologies, Inc., Westminster, CO, USA)

**12:00 - 1:30**

**KEYNOTE LUNCHEON - Grandview Room**

***Sponsored by: The Louis Berger Group, Inc.***

**Demographic Population Fragmentation of Grizzly Bears Across Their Southern Distribution in Southern Canada and the Northwest USA**

Dr. Michael Proctor, University of Calgary, Alberta, Canada

Proctor will highlight the results of a study conducted with his colleagues, Bruce McLellan of the British Columbia Ministry of Forests and Curtis Strobeck of the University of Alberta, that examined the movement patterns of 706 grizzly bears in the Rocky, Purcell, and Selkirk Mountain ranges. Grizzly bear managers in the United States accept that the viability of grizzly populations in northern Montana and Idaho depends on their linkage to populations in southwest Canada. Proctor's study reveals that grizzly bear populations in southwest Canada and the northwestern United States may be more threatened than previously thought by vehicular traffic volume, highway-related human development, and human-caused mortality. Proctor will discuss the need for increased international cooperation and the management of linkage zones and interconnections between grizzly bear population fragments.

**1:30 - 3:00**

**CONCURRENT SESSIONS 10A, 10B, and 10C**

**Session 10A: Birds and Butterflies - Sky Room**

*Moderator:* Susan Hagood, Humane Society of the United States, USA

Impacts of Highways on Dutch Breeding Birds: An Analysis by Applying National Bird Censuses (Ruud Foppen, SOVON Dutch Centre for Field Ornithology, Beek-Ubbergen, Gelderland, The Netherlands)

New York State DOT Roadside Habitat Management Practices for Grassland Bird Species (Kurt Weiskotten, New York State DOT, Albany, NY, USA)

Vertebrates a Forgotten Group of Animals in Infrastructure Planning? Butterflies as Tools and Model Organisms in Sweden (John Askling, Linköping University, and Calluna AB, Linköping, Östergötland, Sweden)

**Session 10B: Small Mammals - Olympic 3, 4**

*Moderator:* Ed Frantz, New York State DOT

Do Small Mammals Exhibit Road Aversion? (Rachelle McGregor, Carleton University, Ottawa, Ontario, Canada)

Small Mammal Use of Modified Culverts on the Lolo South Project of Western Montana: An Update (Kerry Foresman and Jeremy Moran, University of Montana, Missoula, MT, USA)

Effects of Two-Lane Highways on the Endangered San Joaquin Kit Fox (C.D. Bjurlin, California State University-Stanislaus, Bakersfield, CA, USA)

Programmatic Section 7 Consultation Based on Restoring Habitat Connectivity and Achieving Recovery for a Threatened Species: Preble's Meadow Jumping Mouse (Roland Westl, Colorado DOT, Denver, CO, USA)

**Session 10C: Monitoring of Crossing Structures: Part 3 of 3 - Olympic 1, 2**

*Moderator:* Fred Bank, FHWA Headquarters, USA

Bridges and Wildlife: Issues and Solutions (Marion Carey, Washington State DOT, Olympia, NY)

Wildlife Use of Existing Culverts and Bridges in North Central Pennsylvania (Carl Brudin, A. D. Marble & Company Inc., Camp Hill, PA, USA)

Wildlife Use in Relation to Structure Variables for a Sampling of Bridges and Culverts Under I-90 Between Alberton and St. Regis, MT (Christopher Servheen, U.S. Fish and Wildlife Service, Missoula, MT, USA)

**3:00 - 3:30**

**Break - Pool Gazebo**

**3:30 - 5:00**

**CONCURRENT SESSIONS 11A, 11B, and 11C**

**Session 11A: Modeling for Good Planning - Sky Room**

*Moderator:* John Falge, New York State DOT, USA

Assessing the Impact of Roads on Animal Population Viability (Edgar A. Van der Griff, Wageningen University and Research Centre, Wageningen, Utrecht, The Netherlands)

Impacts of Intensity of Human Use on Grizzly Bear Habitat Selection (Douglas Ouren, USGS Northern Rocky Mountain Science Center, Bozeman, MT, USA)

Modeling the Environmental Impacts of the Transportation Sector in Hawaii  
(Karl Kim and Denise Konan, University of Hawaii at Manoa, Manoa, HI, USA)

**Session 11B: Large Mammals: Part 2 of 2 - Olympic 3, 4**

*Moderator:* Terry Smith, New York State DOT, USA

Spatial and Temporal Response of Grizzly Bears to Recreational Use on Trails  
(Tabitha Graves, University of Montana, Missoula, MT, USA)

Using Genetics to Study Road Impacts on Bears in Florida (Stephanie Simek, Florida Fish and Wildlife Conservation Commission, Tallahassee, FL, USA)

**Session 11C: Site Location of Wildlife Crossings - Olympic 1, 2**

*Moderator:* Amy Kahn, New York State DOT, USA

Vermont Agency of Transportation Wildlife Crossing Team: Building a Transportation Planning Tool to Address Wildlife Crossing Locations in Vermont (Chris Slesar, Vermont Agency of Transportation, Montpelier, VT, USA)

Strategy for Restoring Ecological Connectivity and Addressing Mitigation Requirements for the Upgrade of the Route 78 in Swanton, Vermont: An Overview (John Austin, Vermont Department of Fish and Wildlife, Barre, VT, USA)

Identifying the Best Locations to Provide Safe Highway Crossing Opportunities for Wildlife  
(Sarah Barnum, University of Colorado at Denver, Denver, CO, USA)

Conservation Strategies in the Florida Keys: Formula for Success (Roel R. Lopez, Texas A&M University, College Station, TX, USA)

**5:30 - 6:00 Business Meeting of the TRB Task Force on Ecology and Transportation (ICOET Subgroup) - High Peaks Room**

August 29, 2003

Friday

**7:30 - 8:30 Continental Breakfast - Grandview Room**

**8:30 - 12:00 PLENARY SESSION - Olympic Room**

**8:30 - 10:00 Session 12A: Process Streamlining Presentations**

*Moderator:* Paul Garrett, FHWA Headquarters, USA

Streamlining the Review of Routine Transportation Projects that Require ESA Section 7 Review through the Development of a Programmatic Consultation (Barbara Wood, NOAA Fisheries, Olympia, WA, USA)

Balancing the Needs of Transportation and the Environment: Successes and On-Going Challenges for the Transportation Liaison Program at the USFWS in Washington State (Jennifer Quan and Emily Teachout, US Fish and Wildlife Service, Lacey, WA, USA)

**10:00 - 10:30 Break - Pool Gazebo**

**10:30 - 11:30 Session 12B: Process Streamlining Panel Discussion**

*Moderator:* Paul Garrett, FHWA Headquarters, USA  
With representation from USEPA, USFWS, USDA-FS, NMFS, USACE

**11:30 - 12:00 Conference Summary and Call to Action**

*Facilitator:* Leroy Irwin, Florida DOT, USA

**12:00 Conference Adjourns**