AFB40 - Landscape and Environmental Design

Paper or Conference Session (S)s

SMS10-012
Scott D. Bradley, Minnesota Department of Transportation, presiding
Sponsored by Committee on Landscape and Environmental Design

Safety Impact of Gateway Monuments (10-0564)
Zhirui Ye, Montana State University
David A. Veneziano, Montana State University

Assessing Predictor Indicators in Scenic Highway Analysis (10-0011)
Gianluca Dell’Acqua, University of Napoli Federico II, Italy
Francesca Russo, University of Naples Federico II, Italy
Renato Lamberti, University of Naples Federico II, Italy

Full Bayesian Classifier of Driver Scene Aesthetics Based on Ordered Models (10-0918)
Yuren Chen, Tongji university, Shanghai, CHINA
Mohamed A. Abdel-Aty, University of Central Florida
Helai Huang, University of Central Florida
Ming Ma, Wuhan University of Technology, China

Improving the Effectiveness of Wayshowing for America’s Byways® Using a “Visitor's Eye” Perspective—Concepts and Techniques to Increase Appreciation and Action by Byway Providers (10-3099)
Dennis Adams, America’s Byways Resource Center
David L. Dahlquist, David L Dahlquist Associates LLC
Jean Eells, E Resources Group
Curt Pianalto, America’s Byways Resource Center

SMS10-045
Emerging Ecological Challenges, Research and Solutions From the 2009 International Conference on Ecology & Transportation
Scott D. Bradley, Minnesota Department of Transportation; Thomas E. Linkous, Westerville, Ohio (Ohio Department of Transportation, retired), presiding
Sponsored by Committee on Landscape and Environmental Design; Committee on Ecology and Transportation

Held in Duluth, Minnesota in September 2009, selected themes from the International Conference on Ecology and Transportation (ICOET) will be presented to share new developments in transportation ecology with the TRB audience. ICOET 2009 served as the mid-year meeting for the Landscape and Environmental Design Committee, as well as the Ecology and Transportation Committee.

Use of Habitat Credit Trading as a Mitigation Tool for Transportation Projects: A FHWA Pilot Project in Arkansas (P10-0695)
Andrew Peck, Arkansas State University
Mitch Wine, U.S. Fish & Wildlife Service
Catherine Liller, U.S. Fish & Wildlife Service
Randal Looney, Federal Highway Administration
John Harris, Arkansas State Highway and Transportation Department

Ecological Implications of Cured-in-Place Pipe Rehabilitation Technology (P10-0900)
Bridget Donaldson, Virginia Transportation Research Council

Regenerative Stormwater Conveyance (RSC) as an integrated approach to sustainable stormwater planning on linear projects: An innovative approach to open channel conveyance
provides stormwater quantity and quality control benefits while providing aquatic, wetland and terrestrial habitats. (P10-0629)
   Joe Berg, Biohabitats, Inc.

Workshop (W)s

SMW10-004

Seeking Environmental Sustainability and Economic Competitiveness Through Context-Sensitive Solutions
Scott D. Bradley, Minnesota Department of Transportation, presiding
Sponsored by Committee on Landscape and Environmental Design; Task Force on Context Sensitive Design/Solutions (CSD/CSS)

This workshop is designed to enhance the understanding and work of practitioners and researchers in seeking environmental sustainability and economic competitiveness through context-sensitive solutions in transportation. Program and project case study examples will be presented and discussed along with challenges, opportunities, and research needs.

Sustainable Transportation, CSS and the Triple Bottom Line (P10-0818)
   Hal Kassoff, Parsons Brinckerhoff

Balancing Competing Objectives and Optimizing Return on Investment With Context Sensitive and Sustainable Solutions (P10-0823)
   Scott D. Bradley, Minnesota Department of Transportation

Enhancing Sustainability, Cost-Effectiveness, and CSS With Large Scale Mitigation Banking (P10-0827)
   Keith Robinson, California Department of Transportation

CSS, Sustainability and Economic Competitiveness Perspectives from the Swedish Road Administration (P10-0830)
   Torbjorn Suneson, Swedish National Road Administration

European COST (Cooperation in Science & Technology) Perspectives from the Transport & Urban Development Domain (P10-0831)
   Giorgio Chiarello, Giorgio Chiarello Architect

Published Meeting - Committee (M)s

SMM10-009

Landscape and Environmental Design Committee
Sponsored by Committee on Landscape and Environmental Design

AFB40 Cosponsored Sessions (only editable by the primary committee sponsor)

RCW10-008

Implementing Self-Explaining, Self-Enforcing Roads in the United States
Nikiforos Stamatiadis, University of Kentucky, presiding
Sponsored by Committee on Operational Effects of Geometrics; Task Force on Context Sensitive Design/Solutions (CSD/CSS); Committee on Geometric Design; Committee on Landscape and Environmental Design

Roadway environment features that encourage drivers to maintain safe operating speeds (self-explaining roads) is a concept that has been recently implemented in Europe. Complementary to this approach is
the enforcement of the desired speed limits (self-enforcing roads). This workshop focuses on identifying ways that the concepts can be implemented in the United States and determining required steps to be taken to promote them based on European experience.

**A European Perspective on Self-Explaining, Self-Enforcing Roads** (P10-0494)
Basil M. Psarianos, National Technical University of Athens, Greece

**A Dutch Approach to Self-Enforcing, Self-Explaining Roadway Design** (P10-0492)
Fred C. M. Wegman, SWOV Institute for Road Safety Research, Netherlands

**The "Need for Speed" in Highway Design** (P10-0632)
Richard Jon Porter, University of Utah

**Using Existing Design Guidance to Achieve Context-Sensitive Designs** (P10-0493)
Marshall Elizer, Gresham Smith & Partners

**Self-Explaining Thoroughfare Design Via Context Based Functional Classification** (P10-0631)
Richard A. Hall, Hall Planning and Engineering, Inc.

**A Rural Expressway Runs through it- Learning lessons from US 97 and Central Oregon Cities** (P10-0748)
Robert Bryant, Oregon Department of Transportation

---

**SMS10-029**

**Low Impact Development: Benefits, Limitations and Research Needs**
Robert Roseen, University of New Hampshire, presiding

**NCHRP 20-68A, SCAN 08-03 DOMESTIC SCAN PROGRAM Best Practices in Addressing NPDES and Other Water Quality Issues in Highway System Management** (10-1847)
Scott Taylor, RBF & Associates

**EXAMINATION OF THERMAL IMPACTS FROM STORMWATER BMPs** (10-1210)
Robert Roseen, University of New Hampshire

**Iron-Enhanced Sand Filtration for Stormwater Phosphorus Removal** (10-3962)
Andrew J. Erickson, St. Anthony Falls Laboratory
John S. Gulliver, University of Minnesota
Peter T. Weiss, Valparaiso University
Brian J. Huser, Barr Engineering Company, Inc.

**Coupling CFD and physical modeling for highway and bridge deck drainage clarification systems subject to particle loadings** (10-2506)
Subbu-Srikanth Pathapati, University of Florida
John Joseph Sansalone, University of Florida