

Complete Streets and Multimodal Roadway Design Workshop

February 22 & March 1, 2023 - 8:30 AM to Noon

Virtual Sessions Agenda

8:30 AM Introductions & Expectations

8:45-9:30 AM Policies and Traffic Engineering Principles

Introduction to concepts that are part of the emerging emphasis on improving livability of urban centers. Policy examples from Portland will be presented. This introduction will include materials from the National Association of City Transportation Officials (NACTO) and upcoming AASHTO Bike Guide that enable engineers and planners to implement multimodal solutions. Performance measures, design assumptions, and other traditional practices will be compared with context sensitive alternatives that emphasize working with the local community to implement change.

9:30 – 9:40 Short Break

9:40-10:40 AM Guide for Roadway Cross Section Reallocation – NCHRP Report 1036

This new NCHRP Report frames the question of complete streets and multimodal design with a set of new safety standards for all users, including transit riders, pedestrians, and bicyclists. The step-by-step framework presented in this guide helps planners, designers, and anyone interested in helping build safer communities assess the potential impacts of different roadway space allocation choices and understand the inevitable tradeoffs.

10:40-10:50 Short break

10:50-11:25 AM MUTCD Treatments and Applicability Bikeway Facilities and Intersection Treatments

The Manual of Uniform Traffic Control Devices (MUTCD) is an important document for transportation engineering design and allows a significant amount of multimodal facilities. The role of the MUTCD and roadway treatments are presented along with highlights of recent efforts by some agencies to question the usefulness and appropriateness of the manual. Street design principles from the policy to practice will be discussed.

11:25-11:45 AM Summary and wrap-up

Second Session

8:30-10:30 AM Emerging Design Guidance

The Oregon DOT Blueprint for Urban Design (BUD), the Washington State Injury Minimization and Speed Management Policy, and Portland's Vision Zero are all examples of agency's emphasizing safety in the transportation profession. This session will focus on the Oregon BUD and the efforts that have led to changes to state Highway Design Manual, as well as highlighting national trends for updating design guidance and criteria. An overview of the ODOT BUD Guide, including highlights and applicability, will be presented by Hermanus Steyn and Julia Knudsen (Kittelsohn & Associates, Inc).

10:30-10:45 Short break

10:45-11:20 AM Applicability of Treatments & Project Examples/Solutions

Case studies are often the most effective way to share information about how innovation occurs in transportation design. Three case studies will be presented that trace the existing problem, the background policy of the agency, the performance measures used during the analysis, and practical solution that was implemented and the outcomes.

11:20-11:45 AM Summary and wrap-up

The remaining time will be used to summarize the topics covered, review the issues raised during introductions and to answer questions.

Presenters

Peter Koonce, P.E., is from Portland, OR and has worked as a transportation professional for 25 years as a practitioner, consultant, researcher, and advocate. He serves as an adjunct professor at Portland State University, is a member of the Executive Board of the National Committee on Uniform Traffic Control Devices and is a member of the Bicycle Technical Committee. He serves on the Transportation Research Board's Committee on Bicycle Transportation and has served as past Chair of the Transportation Research Board's Committee on Traffic Signal Systems. His favorite colors are orange and black.

Conor Semler is an associate planner who draws on his experience in urban planning, traffic engineering, and technical research in complete streets design. His focus is on improving conditions for walking and bicycling through better evaluation and design. Conor is a national leader in the planning and design of innovative bicycle facilities. He was involved in the development of both the NACTO Urban Bikeway Design Guide and the FHWA Separated Bike Lane Planning and Design Guide. Conor's experience is informed by his role in leading research, contributing to designs, and working closely with cities to continually evolve and innovate safer, more inviting bicycle facilities. Originally from Buffalo, NY, Conor enjoys bicycle commuting year-round and exploring cities on foot with his wife and two young children.

Meredyth Sanders enjoys crafting solutions to transportation challenges facing communities of all shapes and sizes. Her prior professional experiences in transportation policy, conservation, and land use provide her with a well-rounded perspective on the importance of aligning transportation and land use planning and policy. During her time at Kittelson, Meredyth has contributed to long-range transportation plans, multimodal corridor studies, and active transportation projects in jurisdictions throughout the DC metropolitan area and across the United States. A Virginia native, Meredyth spends her time exploring DC's food scene, hiking in Shenandoah National Park, and rooting for her alma mater's stellar basketball team (Go Hoos!).

Hermanus Steyn, P.E. is a Senior Principal Engineer with Kittelson & Associates, Inc. who has almost three decades of experience in a variety of multimodal transportation projects and is currently serving as the co-chair of the Performance Effects of Geometric Design TRB Committee. He takes multimodal transportation concepts from his research into the planning, design, and construction phases, while working with the community to provide a successful project. Hermanus understands the interaction between geometry, operations, and safety for all modes, as well as considers and analyzes trade-offs to development community-based solutions. Outside of work, he loves spending time with his family and tries to stay active by bicycle commuting to work, running (such as Hood-to-Coast Relay), and playing sports (e.g., touch rugby, tennis).

Julia Knudsen, P.E., an Associated Engineer at Kittelson & Associates, Inc., is a transportation engineer with experience in research, planning, and design. She specializes in producing guidebooks and manuals that integrate consistent, yet flexible planning and design approaches. She has led national research related to context-based design and works with state agencies to integrate current research and design guidance into their practices. Julia was a key contributor to the ODOT Blueprint for Urban Design and is currently working with Tennessee Department of Transportation to develop context-based design guidance for their state documents. She was the lead researcher for the NCHRP Web-Only 320 Aligning Geometric Design with Roadway Context that developed content for the future AASHTO Green Book, 8th Edition