

FRI-B08

# Placemaking Through Traffic Engineering: Creative Solutions in Streetscape Design

Friday, October 19, 2018 at 10:30 AM - 12:00 PM



## Overview

Landscape architects who understand traffic engineering principles and innovations can apply these tools to make streets into better places. The presenters will discuss technical roadway-design concepts and cutting-edge approaches, and present case-studies in which innovative solutions emerged from a deep knowledge of the relationship between traffic engineering and placemaking.

## Learning Objectives

- Understand basic street design/traffic engineering principles and standards such as lane widths, turn-lanes, bus-stop configurations, bike facility types, and signalization concepts.
- Understand roadway performance measures such as level of service, and how these are measured.
- Describe innovations in multi-modal facilities including "next-generation bikeways" and bus facilities, and potential future concerns such as accommodating ride-share.
- Describe innovations in community engagement, including temporary prototyping and "tactical urbanism."

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## References

### Walkable City

by Jeff Speck

### Street Design: The Secret to Great Cities and Towns

by Victor Dover and John Massengale

### National Association of City Transportation Officials (NACTO) Guides

<https://nacto.org/publications/design-guides/>

- Urban Street Design Guide
- Global Street Design Guide
- Urban Bikeway Design Guide
- Transit Street Design Guide
- Blueprint for Autonomous Urbanism
- Urban Street Stormwater Guide
- Bike Share Station Siting Guide

### Implementing Context Sensitive Design on Multimodal Corridors: A Practitioner's Handbook

Institute of Transportation Engineers (ITE)

<https://ecommerce.ite.org/IMIS/ItemDetail?iProductCode=IR-145-E>

### Slow Your Street, A How-To Guide for Pop-up Traffic Calming

Trailnet

<https://drive.google.com/file/d/0Bwr2hdQQsTewQ2hVMWJfeEpDaE0/view?pref=2&pli=1>

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## Speakers



**Jacob S. Tobias, ASLA, LEED AP**  
Senior Associate, Landscape Architect, WRT, Inc.

Jacob Tobias is a landscape architect and urban designer in WRT's San Francisco office. With over 17 years of experience, his work includes design at the full range of scales from master planning to detail design, with emphasis on design, construction documentation and implementation of built projects. His focus is incorporating green infrastructure, ecological design principles and community participation in the design process. His streetscape work includes planning, design and construction of corridor improvements throughout the San Francisco Bay Area.



**Matthew Ridgway**  
President, Fehr & Peers DC

Matthew is a Principal with Fehr & Peers DC. He has been involved in many of Fehr & Peers' highest visibility and most complex projects. His key strength is his broad background and multi-modal approach, which he has applied to many large-area plans with transit and pedestrian-oriented projects. In addition to his work as a consultant, Matthew is an instructor for the University of California at Berkeley Institute of Transportation Studies Technology Transfer Program, teaching courses on complete streets planning and design since 1999. He is a regular contributor to the Institute of Transportation Engineers and has written a number of national publications, most recently the Layered Network chapter of the Planning Urban Roadway Systems Recommended Practice. He is a member of the Transportation Research Board Bicycle Transportation Committee.



**Alyson Fletcher**  
Associate, Nelson Nygaard

Alyson Fletcher is an expert in bridging planning and design. With a background in landscape architecture and architecture, Alyson brings an interdisciplinary approach to transportation planning. She has specific expertise in multimodal, parking, and transportation demand projects as well as drafting designs for improved intersections and streetscape facilities. Alyson also creates provocative renderings for public outreach to help people understand. From Kansas City to Western Massachusetts, Alyson has developed concepts to improve intersection safety and rendered station and street alternatives to help communities visualize a more walkable future. She has led numerous efforts in parking studies, from running survey and inventory field work to leading pop-up street workshops and walkshops. For the City of Newton, she led the design, installation and program planning for a tactical urbanism pilot demonstration. She serves as the co-chair of the APBP Boston Chapter and she is the former co-chair of the BSA's public planning and design festival, Common Boston.