BIKEWAY FACILITY AND MASTER PLANNING (TE-34)

COURSE OUTLINE

Day 1 - Overview and Plan Structure

Introductions and Opening Remarks
- Introducing the instructors
- Workshop overview
- References and resources you need

(Bruce) Federal and State Policies
- Why bicycling is important
- Federal Level
- California Vehicle Code
- California Bikeway Funding and New Legislation
- California Climate Change Legislation and Policies including AB 1358 Complete Streets and AB 32 Global Warming Solutions Act

(Bruce) Policies of Bicycle-Friendly Cities 1
- What is a Bicycle-Friendly City (BFC)?
- “PEDALS”: Policies for Sustainable Transportation & Bicycling

(Bruce) Bicycle Master Planning
- What type of plan? (Bicycle Plan vs. Active Transportation Plan)
- Who is the Design User?
- Bicycle Master Planning: Data, Design, Implementation
- Plan Outline Elements
  - Executive Summary
  - Overview / Context
  - Policy Framework: Vision, Goals, Policies, Action Statements
  - Relevant Plans, Studies, Policies, Projects
  - Existing Conditions (network, collision data)
  - Needs Analysis (Opportunities and Constraints)
  - Proposed Network (maps & lists)
  - Implementation Plan (tiers, short/medium/long term)
  - Funding Plan
  - Technical Resources (Appendix?)
  - Project Detail Sheets (Appendix?)
- Required elements for Caltrans Bicycle Transportation Account compliant plans
Day 2 - Frameworks and Bikeway Types

(John) Frameworks and perspectives
- Volume / speed / context space
- Level of Traffic Stress (LTS)
- The “Passing Environment”; “social cycling”
- “Travel Zones” between and through intersections
- Connectivity / Spatial frequency
- Barriers and crossings

(John) Bikeway types and details
- Shared roadways: Woonerven, Yield Streets, local & collector
- Bicycle boulevards / neighborhood greenways
- Bike lanes; contraflow bike lanes; colored pavement
- Shoulder bikeways / rural treatments
- Buffered bike lanes
- Cycle tracks (1-way, 2-way)
- Shared use paths; side-paths; grade separations

Day 3 - Technical Details

(John) Intersection treatments
- Markings: Bike box, 2-stage turn box, lane extension
- Bicycle detection & clearance intervals
- Clearance intervals
- Bicycle signal faces
- Pedestrian Hybrid Beacons / B.C. “flashing-green” treatment

(John) Tools for transforming streets
- Street cross section & “width budget”; minimums vs. optimums
- Width reallocation; parking modifications; minor/major widening
- Roundabouts and roundabout corridors
- Bike corrals and parklets
- The power of pilot projects

Day 4 - Bringing It All Together

(Bruce) Liability
- Definitions
- Design Immunity and Negligence
- State of the Literature
- Consequences of Liability Concerns

(Bruce) Policies of Bicycle-Friendly Cities 2
- Case Studies of Bicycle-Friendly Cities, Plans, and Approaches

(Both) Wrap-up
- Funding
- Resources