

**2–Day Designing Streets for Pedestrian & Bike Safety**  
**Springfield, IL**  
**November, 2018**  
**8:00 AM – 4:30 PM**

**Day 1**

**1: Introduction to Designing for Pedestrian Safety**

- Overview
- Attendees explain their background and what they hope to learn (< 1 minute each)
- Local Perspective -- Summary of Illinois or Springfield Pedestrian and Bike Accommodations in Design, Status of Activities, Vision Zero, etc.

**2: Walking Along the Road**

- Sidewalk design elements that impact pedestrian safety

**3: Street crossing principles:**

- Principles of human behavior; the need to provide safe, frequent and convenient crossings; midblock vs. intersection crossings

**4: Street crossings countermeasures**

- Crosswalks: justification, applicability, crosswalk markings
- Improving crosswalks: illumination; beacons; signing; advance stop/yield lines
- Medians & islands: breaking long crossing into 2 steps
- Pedestrian signals: meeting warrants, innovative techniques
- Grade-separation: where it's applicable, why it fails, how to make it succeed

**5: Intersection geometry**

- Size, radius, skewed intersections, curb extensions: reducing crossing distance
- Crosswalk placement: how to place crosswalks where they'll be used
- Islands; right turn slip lane design

**Field Exercise – Group Work**

**6: Signalized Intersections**

- The purpose and principles of traffic signals
- Pedestrian head and push-button placement
- Countdown pedestrian signals
- Signal timing techniques: restricting turn movements; Leading Pedestrian Interval (LPI); all ped scramble; ITS applications

**7: Road Diets**

- Reducing street width enhances pedestrian safety without compromising capacity

**8: Roundabouts**

- Proper design, essential pedestrian safety considerations

**9: Transit Stops**

- Bus stop location & design; pedestrian crossing safety

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### **Day 2**

#### **1: Designing for Bike Safety**

- Bicyclist skills and characteristics
- Bicyclist crashes and crash characteristics
- Level of Traffic Stress
- Core Safety Concepts

#### **2: Designing for On-Road Bikeways**

- Hierarchy of bikeways
- Shared roadway
- Paved shoulders
- Bike lanes
- Buffered bike lanes
- Separated or Protected bike lanes
- Design guidance

#### **3: Intersection Design Techniques for Bikes**

- Key safety factors
- Shared-use path crossings
- BikeHAWK
- Intersection design
- Traffic signal features for bicyclists
- “Protected” intersections

#### **4: Design Policies and Safety Evaluation**

- USDOT policy
- FHWA program guidance
- Evaluating needs / Data collection
- Safety evaluation tools
- Selecting Countermeasures

### **Adjourn**