COURSE OUTLINE

September 14, 15, 16, 2015. On-Line Webinar
Brought to you by the Technology Transfer Program
A division of the Institute of Transportation Studies
At the University of California, Berkeley
Philip Demosthenes, Instructor

Day One: September 14, 2015, 1:00 to 3:30 pm
12:45: Participants should sign in to Webinar. Check screen and audio.

1:30 Opening Remarks
• Introduction of Program, Instructor and Students
• Course objectives and schedule
• Review of access management resource materials and links.

Why Is Managing Access Important Today?
• Challenges in providing mobility and safety
• National and California crash facts and information
• Access management, a proven safety countermeasure

Defining access management
• Why managing access is a critical strategy
• Benefits and consequences
• AM and economic benefits
• When access in not managed
• Measuring roadway conflicts and severity

Principles & Elements in Access Management for planning and design
• Access separation, traffic signal spacing
• Reducing speed differential
• Restricting turning movements
• Minimum design, minimum safety effects
• Access classifications for roads
• Role of planners in roadway safety

Human factors - Why motorists collide
• Allowing for human errors, Driver work load and PIEV
• Modern distractions impacting design and safety factors
• Work load and access management
• Factors in stopping sight distance

**Basic legal issues in access management**
• The right of property use and access
• Creating a hazard is not a right
• Exercising police powers
• Circuity of travel.

**Roots of the problem, 1900 to 2000**
• Early efforts and recognition of access related problems
• Invention of the “free-way”
• Early research on access and crash rates

**Questions, Discussion**

**Day Two: September 15, 2015, 1:00 to 3:30 pm**
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**Location of Major Intersections.**
• If You Cannot Eliminate it - Then Design it Well
• Signal spacing issues – progression and safety
• Improving major intersection spacing
  o Parallel collectors - part of the hierarchy
  o Frontage and backage roads
  o Shopping center circulation – a circulation system
• Roundabout spacing issues and corner clearance
• Rural spacing issues
• Location and spacing in vicinity of interchanges
• Traffic circulation supporting access management

**Location of Minor Intersections (no full movement assured)**
• Public street access and private driveway access – what is the difference?
• Decision process - Proof of necessity
• Direct or indirect access to arterials - Using access categories
• What is reasonable access?
• Access spacing methods
• Sight distance considerations
• Corner clearance for driveways
• Median choices and effects
• Managing turning movements for safety and operation
• Factors for determining Access location
• Design from outside in
Mitigating Impacts of Access Maneuvers and Conflicts
• Demanding good design
• Reducing Speed differential
• Auxiliary turn lanes, elements, warrants, lengths
• Adjusting the design criteria by function
• Problems with inadequate turn-lane storage

Day Three: September 16, 2015, 1:00 to 3:30 pm
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Continuing with
Mitigating Impacts of Access Maneuvers and Conflicts
• Rural turn lanes
• Preserving the sight distance triangle
• Access width and turning radii
• Dustpan vs curb returns
• Throat length and alignment
• Drive Thru and Queuing Facilities
• Parking Structure Considerations
• Driveway profile including drainage
• Construction risks

Program Elements – strategies for access management implementation
• State and local agency program examples
• Establishing a need for managing access
• Winning support and determining strategies
• Planning components
• Local agency documents, laws
• Access categories, hierarchy systems
• AASHTO on access classifications
• Design element requirements
• Road and access elements by function
• Other strategies besides categories
• Structuring the decision process for greater consistency
• Access technique tool boxes

More on local strategies for access management programs
• Discuss access issues at your office
• Consider driveway permits to better manage driveway impacts
• Permitting by volume and vehicle type
• Illegal access and revocation of permits
• Corridor planning and agreements
• Consider major intersection (signal) planning
• Access management plans for corridors and interchanges
• Importance of an adopted program
• California 2013 SB 743 putting VMT assessment first
• More on local agency AM programs

Questions, Discussion

Any closing administrative issues