



**Kentucky  
Engineering  
Center**



# Professional Development

Sponsored by the Kentucky Society of Professional Engineers and the American Council of Engineering Companies of Kentucky

**March 9 and 10, 2010**

**8:00 a.m. until 4:30 p.m.**

**Location: Kentucky Engineering Center, 160 Democrat Drive, Frankfort**

## Highway Capacity Analysis (HCA) with Signal Capacity Analysis (SCA)

Lectures and software demonstrations on the application of the Highway Capacity Manual (HCM) procedures. The procedures to be covered represent those updated in the new version of the HCM with detailed information on the HCM 2000. The Highway Capacity Software (HCS) implements the procedures defined in the HCM 2000 in a Windows interface. Each HCM lecture will be followed with a software demonstration and hands-on software workshop using the HCS module application.

HCM Signalized Intersection procedures are covered in detail, using HCS+ demonstrations to illustrate expanded analysis techniques. Oversaturated conditions are analyzed using the automated multiple-period analysis, 2003 MUTCD signal warrants analyses are performed, and turning movement count data collection is demonstrated. New features, such as CORSIM animation, preset phasing, automated I-values, on-board Advice and formatted report customizing will be presented. An HCS+ hands-on software workshop will be conducted using the Signals module.

- ◆ HCM and HCS Overview
- ◆ Unsignalized Intersections
- ◆ Multilane Highways
- ◆ Ramp Junctions
- ◆ Freeway Weaving
- ◆ Urban Streets
- ◆ Signal Capacity Principles
- ◆ HCM Signals Procedures
- ◆ HCS+ Interface and Data
- ◆ Expanded Techniques
  - CORSIM Animation
  - Oversaturated Analysis
  - Signal Warrant Analysis

**Instructor:** William M. Sampson, P.E. (HCA, SCA, BSO, TEF, QZA), Director of the McTrans Center

**Contact Hours:** 16

**Fees for KSPE/ACEC-KY/SAME Members:** \$650.00

**Fees for Non-Members:** \$1,250.00

**Class Limit:** 24

**Registration Form \* Deadline \* March 2, 2010**

(One Registration per Form. Make Copies when Necessary. Lunch is on Your Own.)

Name \_\_\_\_\_ Grade (PE, PLS, etc.) \_\_\_\_\_ KSPE/ACEC-KY/SAME Member: Yes No

Co./Org. Name \_\_\_\_\_ Street Address \_\_\_\_\_ PO Box \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ is Address: Work or Home

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

Pricing & Payment *Not Refundable	Member Fee (KSPE/ACEC-KY/SAME)	Non-Member Fee	Total Due	Payment Type (Select One)	Payment Information Complete All Credit Card Information
Highway Capacity Analysis (HCA) and Signal Capacity Analysis (SCA)	\$650.00	\$1,250.00		Check Enclosed	<b>Make Payable to:</b> KSPE/ACEC-KY Seminars. Card No. _____ Name on Card: _____ Card Expires: _____ Vin # _____ Signature on Card (Write Below): _____
				Visa	
				Mastercard	
<b>Contact: nancy@kyengcenter.org or print and mail or fax form to:</b> Nancy Parker, KSPE/ACEC-KY Seminars 160 Democrat Drive Frankfort, KY 40601				<b>Phone:</b> 502-695-5680 800-455-5573 <b>Fax:</b> 502-695-0738	