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Background: This webinar will address some of the most commonly mistaken beliefs about performance, nature, safety improvements and operations of Adaptive Traffic Control Systems (ATCS) including how ATCS potentially reduces the need for retiming and how installations can be funded through traffic impact fees. One of the common questions when evaluating an adaptive traffic control system (ATCS) is how well it compares to recently implemented time of day (TOD) plans and other ATCS solutions regarding safety. This webinar presents information on how interpret the methods which TOD and ASCT systems use applicable traffic data with respect to the use of Rings and Reference points in a coordinated system. An emphasis will be placed on relevant detector locations regarding the demand response characteristics and the natural limitations of the NEMA Ring and Barrier model preventing traffic practitioners to use green time as efficiently as possible and impact safety at the intersection.

Learning Objective(s):

- Develop accurate expectations about what ATCS can and cannot do.
 - Discuss how Adaptive Traffic Control Systems (ATCS) improves the utility of Traffic Impact Fees.
 - Recognize how various ATCS vary with regard to traffic signal cycle lengths.
- Provide practitioners a practical understanding of the capabilities of Ring based ATCS methods vs. Non-Ring based ATCS methods.

Instructor(s): Aleksandar Stevanovic, Ph.D., P.E., Assistant Professor, Florida Atlantic University; David DeBaie, PTOE, P.E, Traffic Engineer, Stantec; Charles Whitfield, Sales Engineer, Rhythm Engineering

Credits: 1.5 PDH**This course is eligible for the following certification renewal(s):** N/A

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