



The Durham Engineers Club Cordially Invites You
to our Thursday, May 17, 2018 Meeting

Featuring our 2018 Scholarship Awards

and guest speaker

***Brian Ceccarelli, P.E.
Talus Software, PLLC***

with a presentation about

***The Yellow Change Interval - Physics in
Opposition***

CHALLENGE ACCEPTED



[Register Now!](#)

You can now pre-pay with a credit card or PayPal account as you register!

Meeting time is at 6:00 pm.

When

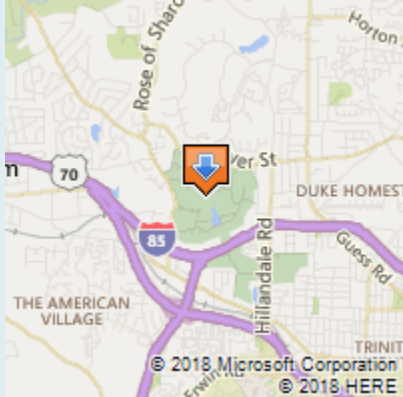
Thursday, May 17, 2018 from
6:00 PM to 9:00 PM EDT

[Add to Calendar](#)

Where

Croasdale Country Club

3800 Farm Gate Ave
Durham, NC 27705



[Driving Directions](#)

Dear Fellow Professional :

Please consider this special invitation to attend our regular monthly meeting and annual scholarship awards dinner on Thursday, May 17, 2018 from 6:00 to 9:00 PM.

This presentation starts with William Potts, the Detroit police officer who invented the yellow traffic signal light in 1920, then moves on to Alexei Maradudin, the University of California physicist who invented the equation traffic engineers use today to set the duration of the yellow light. Traffic engineers have been using his equation since 1965, applying it universally to all types of traffic motion approaching an intersection.

However, engineers have introduced a problem. Maradudin's equation works only for one special case of traffic movement. By applying the equation universally, engineers have introduced a systematic failure into every traffic signal, a failure causing reasonably-perceptive drivers to systematically and unintentionally run red lights. Drivers experience this failure when they step on the gas, slam on the brakes or consign themselves to run a red light. The problem is so pervasive that a handful of red-light cameras in a handful of years will entrap more drivers than a city's population. The problem causes crashes too. Literally by laws of physics, the equation puts conflicting traffic into the intersection at the same time. The presentation concludes with a word about the compatibility between engineering, physics and man-made laws.

Happy New Year!

Dues are due - \$40/year

Brian Ceccarelli is a licensed professional engineer in the State of North Carolina. Mr. Ceccarelli has a degree in physics from the University of Arizona. As principal software engineer for

Upcoming Meetings:

June - Field Trip

Talus Software PLLC, Mr. Ceccarelli has developed financial applications, computer-aided mining applications, CAD/CAM applications, and space exploration applications for Jet Propulsion Laboratory.

August - Field Trip

Ceccarelli became interested in traffic engineering when the Town of Cary, North Carolina bestowed upon him a red-light camera ticket. Since then, Mr. Ceccarelli has been published in Traffic Technology International, has been an expert panelist in traffic signal timing for the Institute of Transportation Engineers, has spoken for the American Society of Civil Engineers, and has presented for the Autonomous Vehicles Symposiums in Stuttgart, Germany and Novi, Michigan. Ceccarelli is an expert witness in traffic signal timing and red-light cameras in several states.

Please click on the link below to register; the cost to attend is \$25 for members and \$35 for non-members. You can now pre-pay as you register with a credit card or PayPal account, mail a check, or pay at the door with cash or check. We cannot accept credit cards at the event.

The price includes a buffet dinner at the Croasdaile Country Club. The buffet features a salad bar, and a variety of hot dishes; the food is excellent. Social hour is from 6:00 to 6:30 pm and there is a cash bar. Dinner is from 6:30 to about 7:00 and the seminar will begin about 7:00, the presentation will be about an hour followed by Q&A. Scholarship awards will follow the presentation.

One (1.0) PDH will be provided; a terrific bargain! Please join us for this great presentation by clicking on the "Register Now" link below, if you cannot attend please let us know as well, and feel free to forward this invitation to as many others as you would like using the button below.

[Register Now!](#)

[Forward to a Friend!](#)

[I can't make it](#)

If you do not wish to continue to receive event invitations from the Durham Engineers Club please unsubscribe using the link at the bottom. The Durham Engineers Club has one meeting per month.

We look forward to seeing you at the meeting!

Sincerely,

Jennifer Buzun, PE
Durham Engineers Club
jbuzun@nc.rr.com
919-560-4326*30292