



**The Durham Engineers Club Cordially Invites You  
to our May 15, 2014 Meeting**

**Featuring our 2014 Scholarship Recipients**

**and our guest speaker**

**Steven A. Cummer, Ph.D.**

**Professor, Electrical and Computer Engineering Department  
Duke University**

**with a presentation about**

**Lightning: Interesting Science and Some  
Engineering Lessons Learned**



**[Register Now!](#)**

**You can now prepay with a credit card or PayPal account as you register!**

**[Meeting time is at 6:00 pm.](#)**

**When**

Thursday May 15, 2014 from  
6:00 PM to 8:30 PM EDT

[Add to Calendar](#)

**Where**

**Coasdaile Country Club  
3800 Farm Gate Avenue  
Durham, NC 27705**

**2013 Corporate Golf  
Tournament Sponsors**

Dear Fellow Professional :

Please consider this special invitation to attend our regular monthly meeting on Thursday, May 15, 2014 from 6:00 to 8:00 PM.

Lightning is something that almost everyone is familiar with at some level, and as such it seems like it should be well understood. In fact, many aspects of lightning are not well understood, and many details of how it works and the spectacular effects it can produce (such as launching beams of antimatter into space) have only been discovered in the past 10 to 20 years. Dr. Cummer has been fortunate to be involved in some of these discoveries, and he will describe how they

**HAZEN AND SAWYER**  
Environmental Engineers & Scientists



**STEWART**



HORVATH  
ASSOCIATES



**MCADAMS**



**BREE**



**Brown AND  
Caldwell**



**Kimley-Horn  
and Associates**

**HAPPY NEW YEAR!**

**Dues for 2014 are due! (\$40)**

**Upcoming Meetings:**

*June 17, 2014 - Scholarship  
Fundraising Golf Tournament*

*July 17, 2014 - Field Trip*

*August 21, 2014 - US Army  
Restoration of Baghdad  
Infrastructure*

unfolded while showing as many movies and photos as possible. As he has an engineering background, he will also describe some of the instrumentation he and his group have built and some lessons he has learned, from both successes and failures, from trying to operate these instruments in challenging environments.

Steven A. Cummer received B.S., M.S., and Ph.D. degrees in Electrical Engineering from Stanford University in 1991, 1993, and 1997. He spent two years at NASA Goddard Space Flight Center as a National Research Council postdoctoral research associate before joining Duke University in 1999. He was a Visiting Fellow at the University of Otago in New Zealand in 2009.

He has written or coauthored more than 170 scientific papers in refereed journals. He received a National Science Foundation CAREER award and a Presidential Early Career Award for Scientists and Engineers in 2001. In recognition of achievement in research and teaching, he held the Jeffrey N. Vinik Associate Professor chair from 2007 to 2012, and also received the Capers and Marion McDonald Award for Excellence in Teaching and Research from Duke's Pratt School of Engineering in 2009.

His current research interests and activity span a variety of theoretical and experimental wave propagation problems in engineered composite materials for electromagnetics and acoustics, and in geophysical remote sensing with a focus on lightning and atmospheric electricity.

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 an extensive 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.

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,**

Michael Hughes, PE  
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