November 13, 2017

Dear High School Physics Teacher,

Each year, we hold an evening event where we invite local instructors to come to campus for dinner, drinks, and talks. The goal is two-fold. First, it provides a chance for interaction and discussion amongst science educators. Second, it provides us a chance to showcase some of the cutting-edge physics research being done here at York. Such an opportunity is especially important for us, since we hope to attract your students to consider York for their University education.

The theme for this year’s event will be **How large is the proton? – the proton size puzzle**. We are very excited to have three professors from the department giving the following short talks on their research:

> Dr. Randy Lewis – The proton has a size because it is made of quarks – but it is much more complicated than that.
> Dr. Eric Hessels – We can determine the size using atoms – but atoms with electrons and atoms with muons give different answers.
> Dr. Marko Horbatsch – Maybe scattering electrons off of protons can determine the size – but maybe it can’t.

The event will take place on Wednesday, December 6, 2017 in Room 320 Norman Bethune College (Paul A. Delaney Gallery) beginning with hors d’oeuvres and drinks at 5:30 pm. Dinner will be served from 6:00-7:00 pm, during which the presentations will be made. We will conclude the evening with dessert and an opportunity for high school teachers and York University physics professors to informally share and exchange ideas.

This event also coincides with the weekly public viewing night at York Observatory (see [http://observatory.info.yorku.ca/join-us-wednesday/](http://observatory.info.yorku.ca/join-us-wednesday/). You are invited to participate in the public viewing night directly after the event if you are interested.

Please take the time to register on-line and reserve your spot for this event by November 30th, 2017 at the latest. To register, and for all logistical details, please consult the Department of Physics and Astronomy’s website found at: [www.physics.yorku.ca](http://www.physics.yorku.ca) with a link to the High School Physics Teacher’s Night event located on the left sidebar.

Complimentary parking will be provided at the Arboretum Lane Parking Garage. Collect a ticket at the garage entrance, then proceed through the gates and park. We will provide an exit pass upon registering at the event location.

If you have questions about any aspect of this event, please contact us using the information at the top of this page.

We sincerely hope you can join us and look forward to seeing you on December 6, 2017.

Sincerely,

[Signature]

Dr. Marshall McCall
Chair, Department of Physics and Astronomy
On behalf of the Organizing Committee