



Canadian Association
of Physicists

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Type: **Invited Speaker / Conférencier(ère) invité(e)**

Ice Hockey: a Sport Full of Physics (I)

Tuesday 12 June 2018 15:30 (30 minutes)

One way to motivate students to learn physics is to use examples of daily life where it applies, and sports are a good example. Ice hockey is particularly rich in the variety of physics elements it contains, from the biomechanics of skating, to shooting and puck aerodynamics, to player collisions. With the help of physics and statistics, I will tackle fun questions like Can a hockey puck become airborne? Why is ice so slippery? From how far away can goalies stop pucks travelling at 160 km/h? Why are NHL goalies becoming taller? Are collisions at mid-ice more dangerous than against the board? and Do NHL teams tend to play better or worse after losing several games? These questions and others will be taken from my books Slap Shot Science and The Physics of Hockey.

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Session Classification: T4-8 Novel Approaches to Promoting Engagement in Physics Classes (DPE)
| Nouvelles approches pour promouvoir l'engagement dans les classes de physique (DEP)

Track Classification: Physics Education / Enseignement de la physique (DPE-DEP)