



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 638

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

(I) Assessment of Physics Competency in a First-Year Integrated Science Course

Monday 7 June 2021 12:00 (30 minutes)

Launched in 2016, our four-year Integrated Science program is intended for students who have a passion for science and who wish to dissolve the barriers between the traditional scientific disciplines. The highlight of the program is a second-semester, first-year “megacourse” that takes a radical approach to first-year science by asking four overarching questions: How did Earth evolve, what is energy, what is life, and how does my smartphone work? Students completing the megacourse receive credit equivalent to second-semester biology, calculus, chemistry, and physics. At the same time, students are introduced to astronomy, earth sciences, computer science, and statistics, scientific disciplines to which first-year students typically receive no exposure. Along with a quick overview of the course, we will explore how students are assessed to ensure that they are sufficiently competent in each of the four main disciplines, particularly in physics.

Author: KOCHHAR, Gurpaul (Western University)

Presenter: KOCHHAR, Gurpaul (Western University)

Session Classification: M1-3 Physics for a larger audience (DPE) / La physique pour un plus vaste auditoire (DEP)

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