

2nd Annual Physics Colloquium

An Introduction to the Theory of Special Relativity

At the Saskatchewan Polytechnic, Department of Literacy and Adult Education, Regina Campus

When: Friday, March 31, 2017, 10:00 a.m. - 3:00 p.m.

Location: Room# 119.5: Saskpolytech, Regina Campus, Regina

Speaker: Dr. P. Ouimet, University of Regina

Description

The session will deal with the following topics:

- Galilean transformations in classical mechanics and the issue with electromagnetism
- The Michelson-Morley Experiment and the Ferromagnetic Ether
- The birth of the special theory of relativity.
- Minkowski Space-time.
- Lorentz transformations: time-dilation and length contraction.
- Mass-energy equivalence.
- Sample problems using the concepts of special theory of relativity

The session will be a mixture of lecture style presentation and group discussion to explore conceptual aspects of special theory of relativity. Efforts will be made to provide as many examples as possible for solving problems using the concepts of special theory of relativity.

No advanced knowledge of mathematics will be assumed, but knowledge of basic mathematics will be helpful.

Registration **(deadline: March 15, 2017)**

Name: _____ Phone/E-mail: _____

Dietary Restriction: _____

Cost: \$150 (lunch is included).

Please do not include the payment with your registration. We will let you know when to send the payment.

Contact Person: Afroze Naqvi, Saskpolytech | Regina Campus, (306) 775-7489

Please e-mail the registration to Afroze Naqvi, afroze.naqvi@sakpolytech.ca Fax: (306) -775-7768