

SEMINAR NOTICE

*Department of Physics and Engineering Physics
University of Saskatchewan*

SPEAKER: Dr. Andrei Smolyakov
Department of Physics and Engineering Physics

TOPIC: *Plasma Physics and Electric Propulsion in Space*

DATE: Tuesday January 23, 2024

TIME: 3:30-4:30 p.m.

PLACE: *Physics 103*

Abstract:

Plasma (electric) propulsion has become an enabling technology for space exploration. Most of geostationary communication and environment observation satellites have plasma based thrusters. Every one of over five thousands of SpaceX Starlink satellites has two Hall thrusters based in plasma principles. Powerful plasma based propulsion systems are being developed for deep space missions such as flights to Mars and beyond. This presentation will discuss basic principles of plasma physics as applied to electric (plasma) propulsion.