



Niagara Frontier Section

Western New York, southeast Ontario and Quebec

Lunch and Learn Webinar

Monday, May 3rd, 11:30 AM EDT

Dr. Shae Williams

Green and Multimode Propulsion

This presentation will discuss two emerging technology types of in-space propulsion that will make future spacecraft longer-lived and more capable. Green propulsion uses a type of storable chemical propellant that can deliver as much performance as current hydrazine-based propellants with far less toxicity and handling difficulties. Multimode propulsion combines chemical propulsion's high thrust and electric propulsion's high specific impulse into a single system so that spacecraft can perform a wider, more flexible range of missions. This talk will explore the need for these two types of propulsion, what they can enable, and some history on past and current efforts to develop mature systems of both types.

Shae Williams is a senior project engineer at the Moog In-Space Propulsion facility in Niagara Falls, New York. He has worked on green, electric, and multimode propulsion his entire career, first at Digital Solid State Propulsion in Reno, Nevada and then Moog. He has B.S. and M.S. degrees in Aerospace Engineering from Georgia Tech and a PhD in Aerospace Engineering from Purdue.

Pre-registration is required. Use this link <https://tinyurl.com/fyh27333> to register and receive your invitation to attend on the 3rd.

