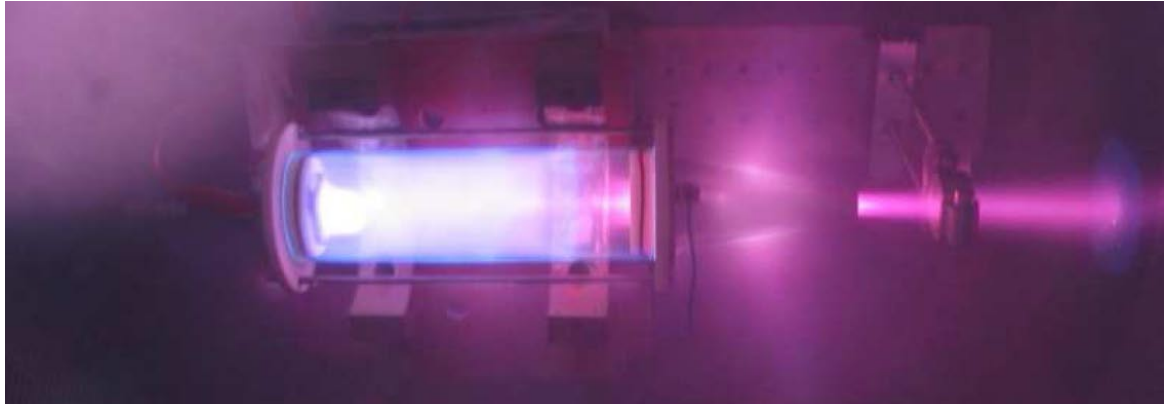


From Fusion Energy to Spacecraft Propulsion



A PUBLIC LECTURE - by Dr Joe Khachan

Wednesday 16th September at 6:00pm

Lecture Room 3, Civil Engineering Building, Faculty of Engineering,
Off Shepherd St, University of Sydney, Darlingtown

This event is FREE and ALL are welcome.

More info: aiaa.sydneysection@gmail.com

Join Dr Joe Khachan and learn about the Charge Exchange Thruster (CXT), a new type of electric propulsion system for spacecraft. The CXT concept has emerged from research into methods for producing compact fusion energy sources, ironically, for applications such as space travel. All electric propulsion methods rely on the production and acceleration of ions and their subsequent neutralization by electrons to avoid the spacecraft acquiring an electrostatic charge, which will eventually stop the propulsion. This three stage process consumes lots of power. The physics behind the newly discovered CXT is still to be fully understood, but it produces electric propulsion in one step efficiently.

Dr Khachan is a senior lecturer in the School of Physics at the University of Sydney and is also the Director of First Year Physics. His research interests include plasma physics, fusion energy and spacecraft propulsion.



The World's Forum for Aerospace Leadership

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This event is hosted by the Sydney Section of the American Institute of Aeronautics & Astronautics and the AIAA Student Branch at the University of Sydney