

## **Prof. Christine Charles**



Professor Christine Charles is Head of the Space Plasma, Power and Propulsion laboratory at the Australian National University (ANU). Born in Brittany (France), she has a French Engineering degree in applied physics, a Ph D in plasma physics, a French Habilitation thesis in materials science and a Bachelor of Music degree in Jazz from the ANU. For the past twenty years, she has been working on experimental expanding plasmas and their applications to electric propulsion, microelectronics and optoelectronics, hydrogen fuel cells and astrophysical plasmas. She is the inventor of the Helicon Double Layer Thruster, a new electrode-less magneto-plasma thruster, which applications include satellite station keeping or interplanetary space travel. In 2009 she won the Australian Institute of Physics' Women in Physics Lecturer. She was a 2011 Finalist in the Australian Innovation Challenge and in the World Technology Awards. She has over 150 articles published in journals such as Physical Review Letters and her Hirsch index is 27.