



Royal
Astronomical
Society

RAS Honorary Fellowship (G) 2022 Professor Kathryn McWilliams

A 2022 Honorary Fellowship in Geophysics is awarded to Professor Kathryn McWilliams, who is an unquestioned international expert in the dynamics of field-aligned currents that link the solar wind, magnetosphere and ionosphere. Further, Professor McWilliams is an undoubted expert in the ionospheric radar systems which have been central to her research. As the director of SuperDARN Canada, Professor McWilliams has overseen the development of a new style of radar which is providing novel and exciting new observations of the auroral oval and polar cap regions of the ionosphere. The new imaging radars provide improved experimental capability and flexibility, and will enable the older radars in the larger international SuperDARN consortium to be upgraded in a cost-efficient manner. Professor McWilliams was elected as the Chair of the SuperDARN Executive Council in 2019, leading a consortium of over 30 radar worldwide in ten countries.

For these reasons Professor Kathryn McWilliams is awarded an Honorary Fellowship of the Society.