



# 40<sup>th</sup> ESA Antenna Workshop

8-10 October 2019  
ESTEC, Noordwijk, The Netherlands

## Biography Presenter

Session Name	<b>Session 11: Surface Integrated Antennas</b>
Day of the presentation	<b>Thursday, October 10, 2019</b>
Paper / Presentation Title	<b>Circular Retrodirective arrays for launch vehicles</b>

Name Presenter	<b>Neil Buchanan</b>
Nationality Presenter	<b>British</b>
Affiliation Presenter and Location (City, Country)	<b>The Institute of Electronics, Communications and Information Technology (ECIT), Queen's University Belfast, Northern Ireland Science Park, Queen's Road, Queen's Island, Belfast BT3 9DT, Northern Ireland, UK,</b>
Present Position	<b>Lecturer</b>
Name of other entities involved in the paper	<b>A. Chepala , V.F. Fusco, M. Van Der Vorst</b>
Experience related to the presentation	<b>Neil Buchanan has significantly contributed to retrodirective antennas for space applications via three ESA projects, two of which are successfully completed ("Self-Focussing Retro-Reflective Tx/Rx Antennas for Mobile Terminal Applications, AO/1-6168/09/NL/JD", "Robust TM System for Future Launchers 4000113562/15/NL/FE,"). Another ESA project is currently ongoing in collaboration with IMST on high performance Ka band self-steered antennas for satellite ground terminals. Neil Buchanan has published over 75 papers and is a previous holder of the ESA Young Antenna Engineer Prize in Oct 2010.</b>