

# Meet the scientist



**Name:** Dudley Shallcross

**Place of Birth:** London

**Where is your place of work?** University of Bristol, UK

**Job title:** Professor of Atmospheric Chemistry

**Who do you work for?** University of Bristol

**What do you do?** The Atmospheric Chemistry Research Group (ACRG) measure a wide range of ozone depleting and greenhouse gases at clean air surface sites across the world. We develop new instruments to measure these gases, carry out laboratory studies to understand processes occurring in the atmosphere and develop computer models to simulate the Earth's atmosphere. We advise a range of stakeholders (such as the Government) about the changing climate and air quality.

**What skills do you have to use in your job?** A degree in chemistry and a degree in mathematics and a PhD in atmospheric chemistry. I use chemistry and mathematics all the time but also need to understand meteorology and some botany as we are trying to understand how natural ecosystems (e.g. forests) will respond to environmental changes.

**Why do you like your job?** The relevance of the research is obvious, people are interested in what we do and can understand in broad terms what we are doing and why we are doing it. The research is very varied. I am challenged to understand other disciplines (subjects) such as botany and geography and I also get to work with some amazing students, academic colleagues, teachers, and the general public in this country and elsewhere.

**What inspired you to choose a career in science?** The Apollo (Moon) missions, I don't remember Apollo 11 but one of my first memory's was Alan Sheppard hitting a golf ball on the moon. I have been fascinated by science all my life and even though none of my family were scientists they encouraged me even though they didn't necessarily understand what I was doing.