

Biography Presenter



Presentation Title	Lidar in Space: Science and Applications
Name Presenter	Dr. Andreas Fix
Nationality Presenter	German
Affiliation Presenter and Location (City, Country)	German Aerospace Center (DLR), Institute of Atmospheric Physics, Oberpfaffenhofen, Germany
Present Position	Scientist
Short Biography	Andreas FIX is a research scientist and designated head of the Lidar Department of DLR Institute of Atmospheric Physics. His main interest is in advancing modern laser technologies for use in atmospheric science from the ground, on aircraft and in space. For this purpose he exploited the application of optical parametric oscillators (OPOs) to measure atmospheric trace gases such as ozone, water vapour, methane, and carbon dioxide. On these fields, he led several research projects as a PI e.g. for the German Federal Ministry for Science and Education (BMBF) or the European Space Agency (ESA). In 2006, he received the DLR Innovation Award for the successful realization of a helicopter-borne lidar system for methane leak detection from pipelines (CHARM®). He was co-author of the WALES mission proposal (2000), to the European Space Agency (ESA) and key technology expert for the EXCALIBUR mission proposal to ESA (2010). Currently he serves as a member for the scientific advisory group (SAG) of the joint French-German climate initiative (MERLIN) to measure methane from a small satellite platform using lidar techniques, scheduled for launch in ~2023. As a visiting lecturer at University of Innsbruck, Austria, he regularly gives courses on "Lidar" and "Remote Sensing of the Atmosphere". Andreas Fix has authored or co-authored more than 70 peer-reviewed publications. He is inventor of several patents.