



Contribution ID: 4

Type: **not specified**

## The Open Science Imperative - Opportunities, Challenges and Limits

*Tuesday 7 October 2014 11:00 (30 minutes)*

Over the last decade, for a variety of reasons, open access to research data has been found to be a guiding principle of handling research data, if not of good scientific practise.

Summoning first principles, the Royal Society observed in 2012, that “Open inquiry is at the heart of the scientific enterprise”. And there are quite “practical” reasons as well: It has been shown in 2014 that in a vast field of research up to one half of publications are not reproducible - which situation could only be remedied by providing openly all manner of supporting evidence, including primary data and software codes. On a more positive note, there is also evidence that sharing data for reuse could double the number publications based on it.

But there is a number of real and perceived barriers to openness and a lack of drivers. Many of the barriers derive from tightly interwoven reasons and some may even be tracked to underdeveloped common understanding of terms and concepts or a hidden overload of meanings.

**Presenter:** PFEIFFENBERGER, Hans (AWI)