

- ○ Local Centre Meetings <sup>[1]</sup>
- Yorkshire Local Centre <sup>[2]</sup>

**Date:** Wednesday 8 April 2020

**Time:** 18:30 - 20:30

**Location:**

School of Earth and  
Environment  
University of Leeds  
Leeds LS2 9JT

**Email:**

[yorkshire@rmets.org](mailto:yorkshire@rmets.org) <sup>[3]</sup>

Please be aware this meeting  
has now been cancelled due  
to COVID-19. Please keep  
updated on our event website.

**SPEAKER|** Dr Declan Finney,  
University of Leeds

**ABSTRACT|** Anyone who has  
seen lightning knows what an  
explosive process it is. That  
thunder you hear is a shock  
wave caused by rapid  
expansion of the air heated to  
thousands of degrees. At such  
high temperatures, chemical  
reactions start to occur in the  
air and lead to lightning being  
a key control on ozone in the  
lower atmosphere. Ozone is  
harmful to humans and plants  
and is also a greenhouse gas.  
In addition to the risks  
humans face from lightning,  
there are multiple other

impacts of this atmospheric phenomenon. For a few decades, researchers have been trying to predict how lightning activity will respond to climate change. Recent studies have called into doubt previous perspectives which expected the number of lightning flashes to increase. This talk will offer detail on the chemical impacts of lightning, as well as bring together the current knowledge on the response of lightning to climate change.

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**Source URL:**<https://accsys.rmets.org/events/updated-lightning-ozone-and-climate-change#comment-0>

#### **Links**

[1] <https://accsys.rmets.org/about-us/local-centres> [2] <https://accsys.rmets.org/about-us/local-centres/yorkshire-local-centre> [3] <mailto:yorkshire@rmets.org>