

Sarah Connors

PhD

Education

- Oct 2011 – Aug 2015 **PhD Atmospheric Chemistry**
University of Cambridge, Centre for Atmospheric Science
Thesis title: Development of a method for estimating methane emissions at high resolution
- Oct 2006 – Jul 2010 **MChem Chemistry 2:1 (Hons)**
University of York, Department of Chemistry
One year industrial placement in organic synthesis

Employment

- Sep 2015 – Dec 2016 **Science Policy Fellow**
European Geosciences Union (EGU - www.egu.eu)
Establishing an interface between EGU scientists and EU public policy.
- Stressing the vitality of evidence-based policy and highlighting the importance of the Earth, planetary and space sciences.
 - Creating resources for the website www.egu.eu/policy
 - Organising science policy events at the EGU general assembly (Europe's premier geosciences conference with over 12 000 attendees).
- Mar 2015 – May 2015 **Policy Internship**
Centre for Science and Policy (CSaP)
Designing, promoting and delivering events for academic and policy making communities. Duties include:
- Oct 2011 – May 2012 **Laboratory Demonstrator, University of Cambridge**
Supervision of first year undergraduates in practical chemistry experiments and theoretical work.
- Jul 2009 – Jul 2010 **Assistant R&D Synthetic Chemist, Lubrizol**
Researching and developing novel, water soluble polymer:

Activities and Achievements

Public Speaking and Science Communication

Selected Presentations

- 2016
- [Invited]: European Commission 'Impact of Climate Change on Global Health' Conference, Brussels
Speaker and panellist in the 'Climate adaptation and mitigation of risks' session
- 2011 – 2015
- [Invited]: UK National Centre for Atmospheric Science (NCAS) Early Careers Forum, Reading
 - European Geosciences Union General Assembly, Vienna
Presenting Interactive Content (PICO) – digital poster and oral presentation
 - American Geophysical Union General Assembly, San Francisco
winner of the **Outstanding Student Presentation Award** (top 3-5 %)
 - UK Met Office, Exeter, NAME modelling Workshop
- 2015
- Pint of Science Festival 2015**
Organising an international science communication 4 day event. Science themes covered: conservation, remote sensing, adaptation to flooding, and evolution.

Jul 2014 **Royal Society Summer Science Exhibition**
Week long exhibition aimed to communicate scientific research to the public and attended by over 15 000 people.

Blogging

2015– Present **Professional: *blogs.egu.eu***
Regular column on the EGU blog focusing on the science policy interface. Shortlisted for the 'EU in my region' blogging competition organised by the European Commission.

2013 – 2016 **Personal: *muchadoaboutclimate.wordpress.com***
Over 65 000 hits since July 2013.

List of Publications

Academic Papers

2017 Estimating methane emissions at high spatial resolution using the inversion technique InTEM – a proof of concept study.
Connors *et. al.* (in prep)

2016 Molecular composition of organic aerosols in central Amazonia: an ultra-high-resolution mass spectrometry study
Kourtchev *et. al.* (ACPD, under review).

Estimating the size of a methane emission point-source at different scales: from local to landscape
Riddick *et. al.* (ACPD, under review).

Development of a low-maintenance measurement approach to continuously estimate methane emissions: a case study
Riddick *et. al.* (Waste Management)

Warmer climate enhances oligomer content in ambient organic aerosol and CCN concentration.
Kourtchev *et. al.* (Nature Scientific Reports).

Conference Papers

2016 European Geosciences Union (EGU)
Vienna, Austria
Poster Presentation: *Estimating dispersed and point source emissions of methane in East Anglia: results and implications*

2015 European Geosciences Union (EGU)
Vienna, Austria
PICO Presentation: *High-resolution methane emission estimates using surface measurements and the InTEM inversion system*

National Centre for Atmospheric Science (NCAS) Early Careers Forum
Reading, UK
Oral Presentation: *Verifying UK methane emissions using the inversion technique 'InTEM'*

2014 American Geophysical Union (AGU)
San Francisco, USA
Oral Presentation: *High resolution methane emissions estimates using the inversion approach InTEM*