



Science and  
Technology  
Facilities Council



UNIVERSITY  
*of York*



# SAQN

STFC  
AIR QUALITY  
NETWORK

Bringing together research,  
industry & policy to address air  
quality challenges

In partnership with:



University of  
Chester

**KING'S**  
*College*  
LONDON



National Centre for  
Atmospheric Science  
NATURAL ENVIRONMENT RESEARCH COUNCIL

Dr Sarah Moller  
@STFC\_AQN  
@DrSazzle

# WHY AIR QUALITY?

## AIR POLLUTION IMPACTS:



**ECOSYSTEMS**

**ECONOMY**

**CLIMATE**

**HEALTH**



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**SAQN** STFC  
AIR QUALITY  
NETWORK



AIR POLLUTION IS THE  
WORLD'S WORST  
ENVIRONMENTAL  
HEALTH RISK

# WHY AIR QUALITY?

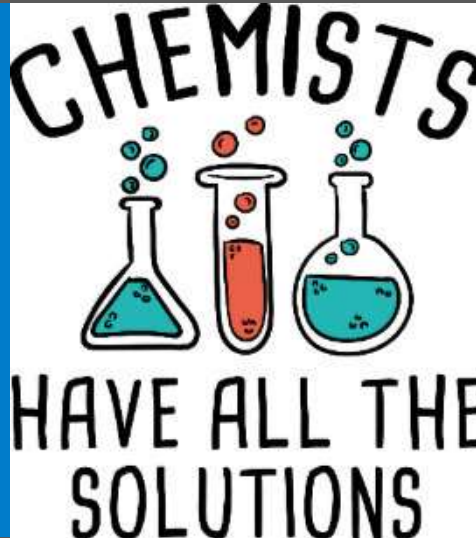
## UNEP Year Book 2014: Emerging Issues Update

Does London have the worst NO<sub>2</sub> pollution on Earth?

Updated 19 Jul 2014  
Academics claimed this week that Oxford Street has the worst nitrogen dioxide pollution in the world. Today the European Court of Justice is hearing even on a case against UK's consistent breaches of EU air standards. With your to Mathiesen investigates how bad things are.  
Let us know your thoughts. Post in the comments below, email [karl.mathiesen.zeelance@theguardian.com](mailto:karl.mathiesen.zeelance@theguardian.com) or tweet @karlmathiesen



© Oxford Street is again considered the world's highest levels of NO<sub>2</sub>. See <http://www.theguardian.com/environment/2014/jul/14/oxford-street-air-pollution>



“AIR QUALITY IS A BIG POLITICAL PRIORITY AGAIN...WE WILL NEED TO BE ABLE TO WORK IN AN INCREASINGLY INTERDISCIPLINARY WAY, OPENING UP OPPORTUNITIES FOR A WIDER RANGE OF EXPERTS TO CONTRIBUTE.”

Defra deputy director & air quality policy lead

# WHAT IS THE SAQN?

- STFC 21<sup>st</sup> Century Challenge Network+
- Addressing user needs.
  - Government
  - Industry
  - Other research communities (not STFC)
- Creation of multidisciplinary communities



# NETWORK+ AIMS

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- Build **interdisciplinary communities** at interface between STFC science and 21<sup>st</sup> Century challenges.
- Facilitate **knowledge sharing**.
- Identify user needs that STFC capabilities have a role in addressing.
- Create **multidisciplinary project teams** for future proposals.
- Fund **demonstrations of STFC capability** application to de-risk future applications for larger funding.

# SAQN AIM

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BRINGING TOGETHER RESEARCH,  
INDUSTRY AND POLICY TO  
ADDRESS AIR QUALITY  
CHALLENGES . . .

# SAQN AIM

To create a multidisciplinary community to exploit untapped potential of STFC capabilities in addressing air quality challenges



**ENGAGEMENT WITH  
INDUSTRY & GOV.**

**INITIATING LASTING  
COLLABORATIONS**

**↑ STFC CAPABILITY  
AWARENESS**

# ACHIEVING THE AIMS

## ENGAGEMENT WITH INDUSTRY & GOV.

## INITIATING LASTING COLLABORATIONS

## ↑ STFC CAPABILITY AWARENESS



- Steering Committee
- Matchmaking
- Industry focused meeting?

- Travel funds
- Annual meetings
- Collaboration building workshops
- Scoping & proof of concept funding

- Annual meetings
- Travel funds
- Newsletters
- Website



# SAQN STEERING COMMITTEE

John Newington (Chair)	Department for Environment, Food and Rural Affairs
Dr Jenny Baverstock	University of Southampton
Sukky Choongh-Campbell	Society of Motor Manufacturers
Prof Bill David	STFC, University of Oxford
Prof Rod Jones	University of Cambridge
Prof Rob Kinnersley	Environment Agency
Prof Alastair Lewis	National Centre for Atmospheric Science, University of York

# SAQN LEADERSHIP GROUP

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Kevin Smith:  
STFC  
RAL Space



Wendy  
Garland:  
Centre for  
Environmental  
Data Analysis



Andy  
Williams:  
University  
of Chester



Martin  
Jukes:  
Centre for  
Environmental  
Data Analysis



David  
Green:  
King's  
College  
London



Fleur  
Hughes:  
University  
of York

# MEETING AIMS

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- Inform people about the SAQN and how it will operate.
- Introduce STFC science and capabilities.
- Initiate conversations between communities.
- Facilitate discussions around opportunities for collaboration.
- Get input from network members into future focus of network activities.

# MEETING AIMS

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SAQN funding is focused on using **STFC capabilities** to address air quality challenges

BUT the SAQN would be very happy **to initiate and facilitate** conversations & collaborations that aren't clearly in the STFC remit, and we want to hear about them...we just can't fund them.

# MEETING STRUCTURE

DAY 1:



**AIR QUALITY  
CHALLENGES**

**STFC  
SCIENCE**

**EXISTING  
OVERLAPS**

**NETWORKING  
TIME**

# MEETING STRUCTURE

DAY 2:

**SAQN** STFC  
AIR QUALITY  
NETWORK



**WE NEED  
YOUR INPUT**

**SAQN**

**DEVELOPING**

**OPPORTUNITY**

**YOUR**

**ACTIVITIES**

**IDEAS**

**EXPLORATION**

**INPUT**

# YOU ARE THE NETWORK...

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SAQN ACTIVITIES SHOULD:



**INCLUDE  
YOU**



**ENGAGE  
YOU**



**BE INFLUENCED BY  
YOU**



**ENABLE  
YOU**



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# THANK YOU

for

# LISTENING



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Chester

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