

Patient and Public Involvement and Engagement – '17/18

Mireille B. Toledano (lead) and Ian S. Mudway (deputy)

PPI/E Strategic Oversight Group: Theme I - Tony Fletcher ([PHE](#)) and Anna Hansell ([Imperial](#)); Theme II - Tim Gant ([PHE](#)) and David Phillips ([KCL](#)); Theme III - Mireille Toledano ([Imperial](#)) and Antony Young ([PHE](#)); and Theme IV - Ian Mudway ([KCL](#)) and Rachel Smith ([PHE](#)).



NIHR PPI Strategy

In 2014/2015 'Breaking Boundaries' strategic review of PPI in the NIHR -> **Going the Extra Mile** Report.

- **Mission by 2025:**

- Public as partners to deliver high quality research to improve wellbeing of the nation.

- **Strategic goals by 2025:**

- Opportunities to engage and involve in research are visible by the public
- Public involvement is locally driven but strategically consistent with NIHR goals
- Evidence of what works and sharing it with others to put it into practice

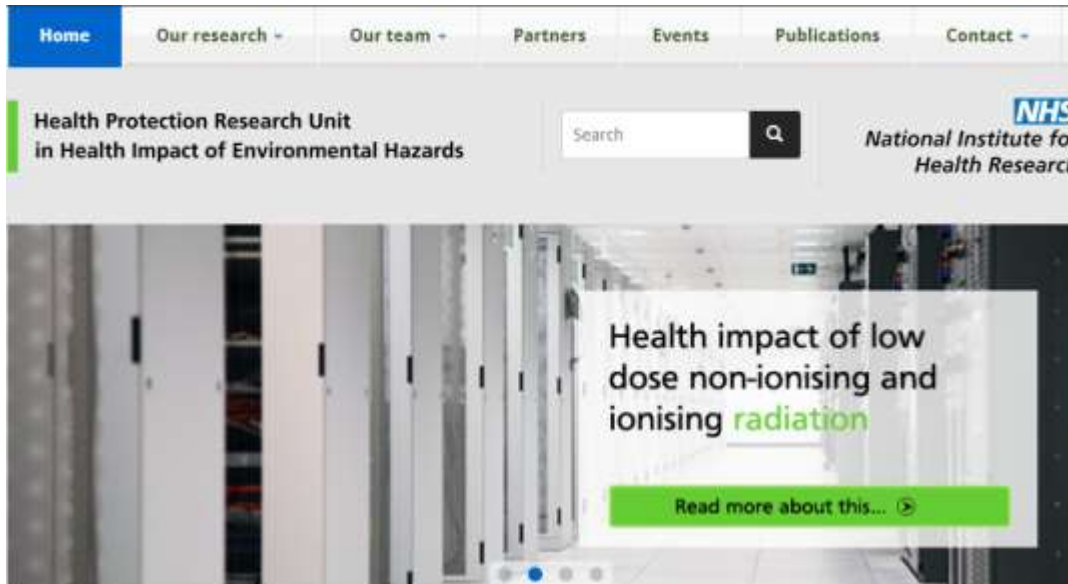
(1) Building PPI/E capacity through training

- Training provision for HPRU member via the Imperial NIHR Patient Experience Research Centre



- Public Engagement training with the MRC (2017/18 – 11 individuals)
- Practical first hand experience through science engagement events of outreach activities

(2) Educational/information resources



HPRU HIEH

18,305 page views

14,545 unique page views

3,628 users

HPRU EPR – 11,434 page views

HPRU Immunisation – 5,559

HPRU BBSTI – 8,931

Research themes

Welcome to the National Institute for Health Research Health Protection Research Unit (NIHR HPRU) in Health Impact of Environmental Hazards. Our strategy is to investigate the impact of exposure to exogenous environmental chemicals and other pollutants; to gain greater understanding of the mechanism of their interaction with human systems and hence generate new knowledge of health risks to the human population. This new knowledge will be used in health impact assessment and targeted policy research to inform and improve public health and medical response.

The four themes are:

- Theme 1 - Epidemiological assessment of low level environmental exposures
- Theme 2 - Modes of toxicity (Biochemical pathways from toxin to disease)
- Theme 3 - Health impact of low dose non-ionising and ionising radiation
- Theme 4 - Health effects of noise and air pollution including nanoparticles

Latest news

The Health Effects of Air Pollution: Time to Act



21 Mar 2018

Professor Frank Kelly and Drs Ben Barratt and Ian Mudway... [Read more...](#)

Health impacts of all pollution - what do we know?



6 Mar 2018

Dame Sally Davies, the

(2) Educational/information resources

The screenshot displays the SCAMP website with a prominent recruitment banner. The banner features a background image of a hand holding a mobile phone. The main text on the banner asks, "Would you like to take part in SCAMP's Personal Monitoring Study?" and provides a link: "If so, [CLICK HERE](#) for more information!". Below this, a note states: "*only available to pupils from participating SCAMP schools".

Two circular call-to-action buttons are present on the banner: an orange one for "PARENTS REGISTER HERE" (with a sub-link "FOR PERMISSIONS AND QUESTIONNAIRE") and a green one for "PUPIL'S QUESTIONNAIRE" (with a sub-link "CLICK HERE").

At the bottom of the banner, three rectangular buttons are arranged horizontally: "CLICK HERE FOR SCHOOLS" (green), "CLICK HERE FOR PARENTS" (blue), and "CLICK HERE FOR PUPILS" (purple).

Below the banner, a blue section contains the text: "Mobile phones and other wireless technologies have rapidly become central to our children's everyday lives." accompanied by a graphic of a mobile phone with signal waves.

The website header includes a navigation menu with items: Home, Our research, Our team, Partners, Events, Publications, and Contact. The SCAMP logo is "Study of Cognition, Adolescents and Mobile Phones". The Imperial College London logo is also visible, along with links for "Cookie Policy" and "Privacy Policy".

2) Educational/information resources

The image shows a screenshot of a Twitter profile page. At the top, there is a banner image with the word 'SCAMP' in large, pixelated purple letters. Below the banner is the profile header for 'SCAMP Study' (@SCAMPStudy), which includes a bio, location (Imperial College London), website (scampstudy.org), and join date (May 2014). A circular icon with a smartphone and the SCAMP logo is overlaid on the profile picture area. Below the header is a large blue profile picture featuring a white cloud and a smaller circular icon with a cloud. The statistics bar shows 5,458 tweets, 549 following, 8,657 followers, 645 likes, and 2 lists. A 'Follow' button is visible. Below the header is the profile for 'London Air' (@LondonAir), which includes a bio, location (London), website (londonair.co.uk), and join date (May 2009). The main content area shows a tweet from 'Clean Air Better Business' (@CRP_CABB) retweeted by 'London Air', with a link to a research article. Below this is a tweet from 'Euston Town' (@EustonTown) about the EustonGreenLink. On the right side, there are sections for 'New to Twitter?' with a 'Sign up' button and 'You may also like' with a 'Refresh' button and a profile for 'Clean Air in London' (@CleanAirLondon).

(3) Facilitate public-directed research

Environment and Health Community Advisory Board

Group Members

Paul Braithwaite - Camden's Air Quality, Green Open Spaces & Trees group
Monica Robb - Heathrow Association for the Control of Aircraft Noise
Andrea Lee - ClientEarth
Libby Forest - Environmental Services Association
Abigail Jones - Sense about Science
Danny Ruta - Director of Public Health, NHS Lewisham
Harriet Edwards – British Lung Foundation
David McColgan – British Heart Foundation
Rachel Power - Patient's Association

- **Estimation of costs to the NHS and social care due to the health impacts of air pollution** – Daniela Fecht
- **Optimising assessment of health impacts of air pollution – choice of plausible air pollution reduction scenarios for analysis** – Heather Walton
- **Noise, a Public Health Problem** - Anna Hansell

(4) Present at Science Events



- Air pollution
- Noise
- Microbiome
- Radiation
- Bioaerosols
- Nanotoxicity



(4) Present at Science Events



20th March



(4) Present at Science Events

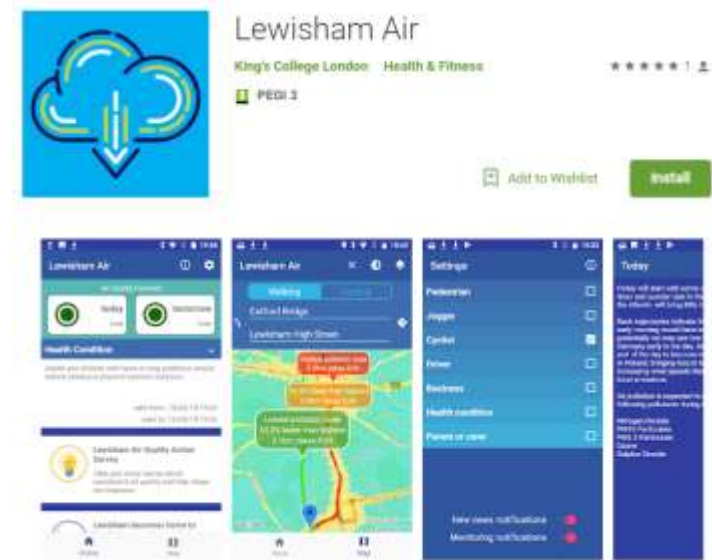


“Our Air, Your Health Event” Deptford (19th June 2017)



Air pollution; Noise; Green
space; Bioaerosols;
Microplastics

Consequences of Lewisham Engagement



- Air pollution master classes for councillors
- Public meetings
- App development

Other activities...



Should I worry about air pollution?

19th Feb 2018

PROFESSOR FRANK KELLY: Why we should worry about plastic in the air

By PROFESSOR FRANK KELLY FOR THE DAILY MAIL
PUBLISHED: 22:24, 18 March 2018 | UPDATED: 22:27, 18 March 2018



History is littered with examples of developments which seemed a great idea at the time but have subsequently been discovered to have unfortunate consequences for our health.

The list includes smoking cigarettes, putting lead in petrol and using asbestos in building materials. And in years to come, we may well look back and wonder why we ever tolerated the presence of plastic in everything from water bottles to carrier bags.

We already know that microplastics consumed by fish and other marine creatures can find their way into the human food chain. But this latest Mail investigation adds to a growing body of evidence that demonstrates they are contained in the very air that we breathe.



18th March 2018

Fog Everywhere Camden People's Theatre

31st Oct – 11th Nov



National Institute for
Health Research



 **Breathing into our future: “Will we all be gasping for air?”**

Published Online
November 13, 2017
[http://dx.doi.org/10.1016/S2213-2600\(17\)30447-2](http://dx.doi.org/10.1016/S2213-2600(17)30447-2)

Fog Everywhere
Camden People's Theatre,
London, UK
Directed by Brian Logan,
in partnership with Westminster
Kingsway College and the Lung
Biology Group at Kings College
London

Oct 31, 2017–Nov 11, 2017
Part of *Shoot The Breeze*
a fortnight of work addressing
climate change and the
environment

For more on toxic air in London
see <https://www.theguardian.com/environment/2017/oct/04/revealed-dangerous-levels-of-breathing-dangerous-levels-of-toxic-air-particle>

London—“*The Big Smoke*”—England’s capital is a vibrant metropolis with a population of more than eight million. However, the global powerhouse has a “sickening” problem admits London Mayor, Sadiq Khan. Every person in the capital is breathing air containing high levels of fine particulate matter (aerodynamic diameter <2.5 µm); with concentrations in the city almost double that of WHO guidelines. 2017 marks 65 years since the worst air pollution crisis in European history, the Great Smog of 1952 (cogently called “the Big Smoke”), but this event is sequestered in history books, and largely unknown to today’s younger generations. Eyewitness descriptions of the smog describe a sickly yellowish noxious fog mixed with filthy soot, which suffocated and choked the city’s population in a sulfurous blinding mist for five days—images that wouldn’t be out of place in a cult horror or apocalyptic disaster movie. But it really happened; so what about now? What do we know about urban air pollution, and what can we do to sway the tide of an increasingly lethal environmental crisis?

Following the smog of 1952, there were others, but none so devastating in terms of lives lost. An estimated 8000–12 000 people died as a result, predominately older people, young children, and people with respiratory problems, including smokers. A notable increase in deaths from bronchitis and pneumonia was observed in subsequent years and in poorer areas such as London’s East



(5) PPI networks/forums to ensure common approaches to PPI/E, sharing of resource and best practice

- Active collaboration with the Imperial NIHR PERC on ongoing projects.
- Active membership of the MRC Open Communications Forum, facilitating exchange of 'learning' across all MRC funded Centres and Units.
- Collaboration with the PPI team and public panel at the Asthma UK Centre for Applied Research (QMUL) as part of the CHILL study. Recently selected (20th March) to act as a test bed for the development of National Standards for Public Involvement in Research.

(6/7). Research into ... strategies & effectiveness of PPI/E



Enhancing engagement in public health research in seldom-heard groups

ESRC Impact Acceleration Account award – the SCAMP study. (ESRC IAA Award ES/M500562/1)

PI, Dr Mireille B. Toledano (HPRU) ,Dr Ian Mudway, Dr Benjamin Barratt, Rosie Jenkins, Diana Silva (HPRU); Dr Bethan Davies, Maria Piggan and Jane Bruton (PERC).

Objectives:

- a) Establish barriers to consent provision for data linkage and participation in the exposure validation assessment and bio-sampling in seldom-heard individuals/communities
- b) Co-produce specific, actionable solutions to increase consent and bio-sampling and exposure validation participation in the SCAMP cohort
- c) Discuss more widely how to address barriers to participation in research.

Future plans

Earth Day at Somerset House - 19 - 24 April 2018



Imperial festival - 28 - 29 April 2018 – some focus on individual data ownership

MRC Festival of Science - 14-24 June 2018

New Scientist Live - 14-24 June 2018

Publication of findings from the work with seldom heard groups and dissemination of findings across PPI/E networks.

Work with IOSH to provide advice on occupational driving exposures (DeMIST)