



INSTITUTION OF ENVIRONMENTAL SCIENCES

ANNUAL REPORT²⁰¹³

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“WE TAKE SERIOUSLY OUR
 ROLE OF DEFENDING GOOD
 SCIENCE PROMOTING
 EVIDENCE-BASED-POLICY,
 WHILST HELPING OUR
 MEMBERS BECOME GOOD
 COMMUNICATORS.”



In my role as the IES chair I am pleased to introduce our 2013 Annual Report which looks back on some of the successes of the past calendar year.

Dr Heather Barrett-Mold
 Chair of Council, March 2014

A note from our chair

The application of scientific principles to the environment have given incredible insight into interactions in nature and humankind's impact on the natural world. The work of environmental scientists – coupled with huge leaps in technology – has increased the spatial scale at which they can work, ranging from local to global. Nowhere is this affect more apparent than in climate modelling.

Climate modelling has been promoted back up the news agenda in 2013 with the launch of the Fifth Assessment from the Intergovernmental Panel on Climate Change (IPCC). The report reiterated the urgent need for action; so it was not surprising that one of the highlights of the year was the Burntwood Lecture given by model expert and the Chief Scientist at the Met Office, Julia Slingo.

At the time of writing the UK has gone through the wettest January on record and various communities are struggling with flooding affecting their homes and businesses. Professor Slingo commented: “We have always seen a great deal of variability in UK extreme rainfall because our weather patterns are constantly changing, but this analysis suggests we are seeing a shift in our rainfall behaviour.”

“There's evidence to say we are getting slightly more rain in total, but more importantly it may be falling in more intense bursts - which can increase the risk of flooding. It's essential we look at how this may impact our rainfall patterns going forward over the next decade and beyond, so we can advise on the frequency of extreme weather in the future and the potential for more surface and river flooding.”

Although we need to be careful about confusing weather with climate, modelling is able to alert us to various conditions and endeavour to mitigate them. Modelling enables us to understand how the climate system works and why climate is changing. It enables us to ‘see into the future’ and take appropriate action.

At the IES we believe environmental scientists do not have the luxury of letting our research speak for itself; publishing in obscure journals, hiding away in laboratories and remaining passive about our research. All too often environmental research shows stark warnings about the effect that humankind is having on the planet and this should be prompting behavioural and policy change.

The IES is the voice of environmental science and an important bridge between science and society. We take seriously our role of defending good science, promoting evidence-based-policy, whilst helping our members become good communicators. That is why over the past 12 months the IES has become far more involved in working with Government departments to ensure policy is underpinned by sound science; it is why we published two journals on EU and UK regulation; and it is why we continue to strengthen the Chartered Environmentalist designation with its emphasis on communication and behavioural change.

The organisation continues to flourish thanks to a committed, knowledgeable and skilled team at the helm. My thanks and those from the Council go to the office team. My thanks must also go to Council members whose expertise and commitment make such a difference in moving the Institution forwards.

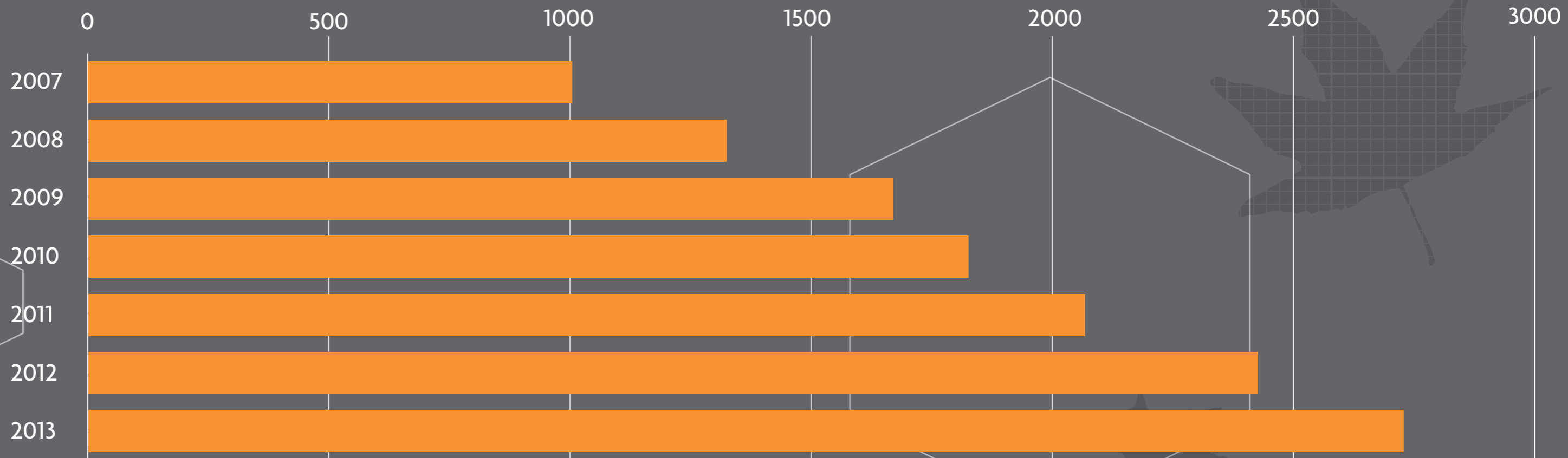
“The organisation continues to flourish thanks to a committed, knowledgeable and skilled team at the helm”

Whatever stage you are at in your career, the IES has membership services that will help you gain recognition and progress to the next level. Members come from all areas of the environment sector, wherever jobs are underpinned by sound science.

Growth in total IES membership in 2012: **12%**

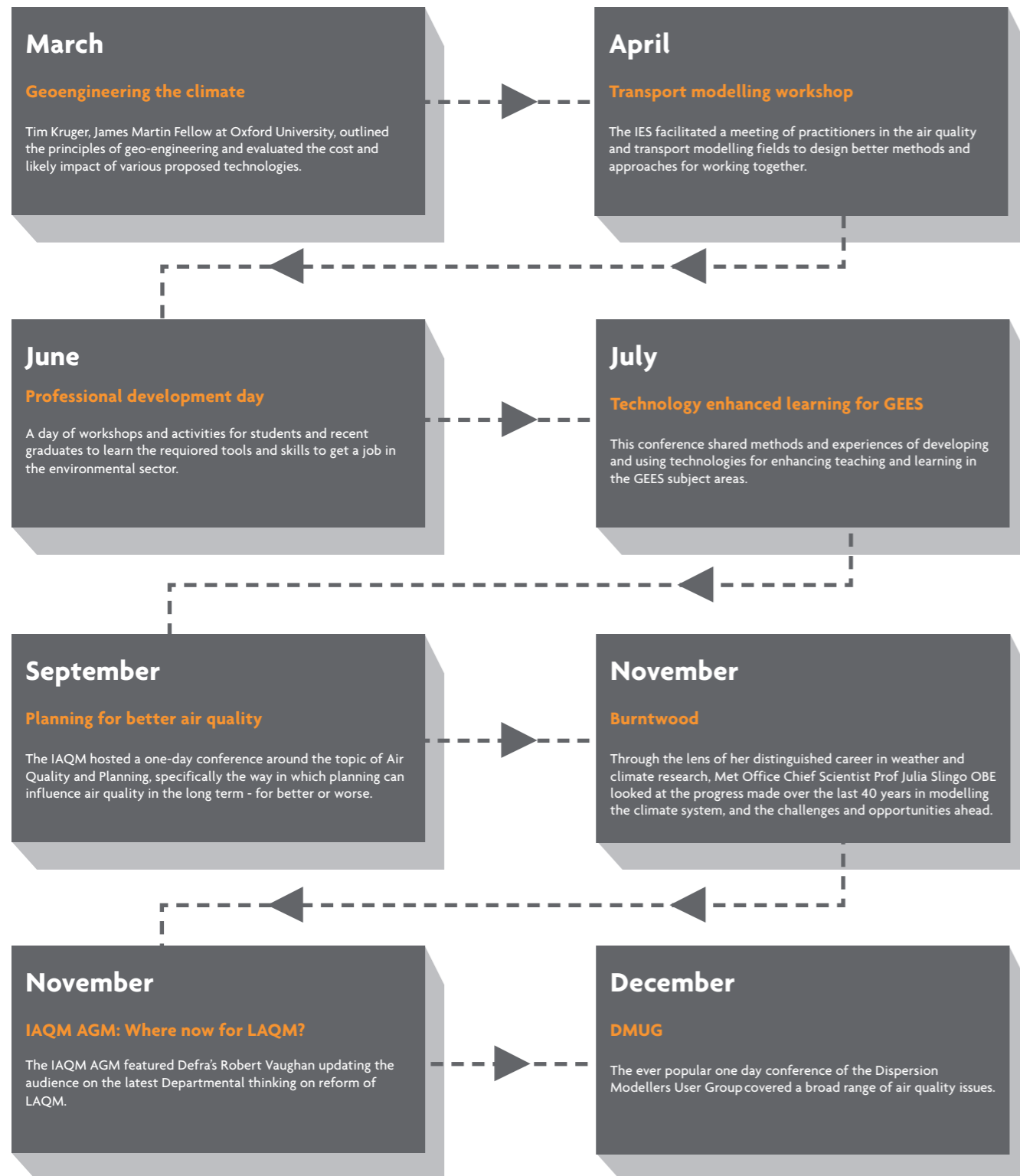
Increase in CEnvs in 2013: **12%**

TOTAL MEMBERS



Aiding professional development

Selected events from 2013



environmental SCIENTIST

London 2012: Sustainable legacy?



One of the central strands of London's successful bid to host the Olympic Games was its claim that it would be the 'greenest Games ever'. In this journal, developed with the Commission for a Sustainable London 2012, the IES investigated whether London 2012 delivered on this claim. The publication interrogated the achievements of the delivery bodies throughout the lifetime of the Games and into legacy in an attempt to answer whether or not an Olympic Games can ever truly be sustainable.

The EU: red tape or green governance?



Environmental challenges know no borders. Issues such as climate change, biodiversity loss and acid rain have international or even global dimensions. None of these challenges can be efficiently managed without shared responsibility and common decisions. This journal investigated environmental legislation from the EU and the effects it has on the UK's environmental professionals. It included opinions about the potential environmental effects of leaving the EU as well as the perceived benefits of EU membership to UK-based organisations.

Reading the landscape: heritage and the environment



Heritage is a broad discipline that draws together environmental specialists from a diverse set of academic backgrounds. Environmental scientists have a significant role to play in preserving, enhancing and interpreting cultural heritage at every scale. This issue captured a range of contemporary debates within the heritage sector, showing how environment and heritage have been historic bedfellows.

Air quality: should we have achieved more?



Published during the European Year of Air, this journal summarised the current state of the air quality profession and asked the question "should we have achieved more". Broadly speaking, the articles had three themes: a retrospective showing how we have reached the current situation, a review of topical issues and an attempt to look to the future. The journal concluded with some opinions on why the general public are not more vocal about air quality issues.

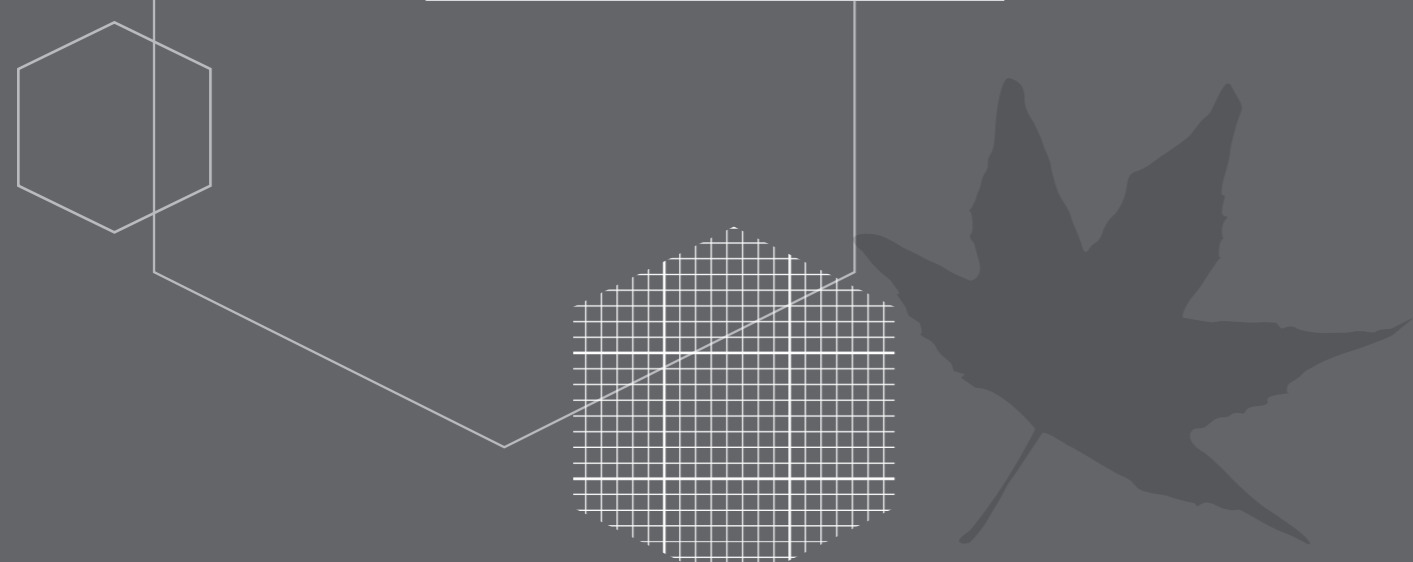
UK regulation: endless paperwork or essential protection?



The importance of environmental regulation was first recognised with concerns about the health and environmental impacts of rapid and uncontrolled development during the Industrial Revolution. Environmental regulation today involves interpreting and implementing a wide range of legislation covering different media, processes and substances. This journal provided a comprehensive review of the UK's environmental regulatory landscape, the red tape challenge and explained how regulation has benefited the UK environment.



OUR AMBITION THIS YEAR
 WAS TO INCREASE THE
 IMPACT AND VOICE OF OUR
 MEMBERS, BY ENGAGING
 WITH THE ENVIRONMENTAL
 POLICIES AND REGULATIONS
 THEY WORK WITH EVERY
 DAY, AND IN THIS WE
 SUCCEEDED.



Whilst 2013 may be seen as a time of austerity for global economics, as thoughts of ambition were scaled back and expectations of growth lowered, I am glad to say that for the IES, 2013 was a year to buck global trends.

Phil Holmes
 Honorary Secretary, March 2014

Honorary Secretary's Report

Our ambition this year was to increase the impact and voice of our members, by engaging with the environmental policies and regulations they work with every day, and in this we succeeded. Raising not only the profile of environmental scientists as professionals, but also giving them more input into the future of regulation.

A series of well received environmental SCIENTIST journals fuelled the debate on the issue of environmental regulation, not only in the UK but in Europe as a whole. One journal posed the question "The EU – red tape or green governance?"; another asked "UK regulation – endless paperwork or essential protection?" Opinions from political parties were placed next to articles from lawyers, practitioners, policy makers and scientists to give our members the latest thinking about the role of legislation in our sector.

As part of our growth agenda, a focus on the IES website and social networks has allowed the organisation to better reach those who shape and use policies. A refreshed design, based on feedback from members allows quicker access to information, whilst our new Analysis section provides a platform for more articles, discussion and debate around matters which affect our members and their work.

We have had a year of investment in IES staff too, which has already resulted in a substantial growth in membership and improved the services we offer. Once again I have the pleasure of thanking the project team, not just for their hard work, but for creating an atmosphere of enthusiasm and acting as a positive conduit between the membership and the wider community. I would especially like to congratulate Adam Donnan on becoming the IES' first CEO, as well as Emma Fenton in becoming the organisation's first

Publication and Policy Officer. Thanks also go to our administrator Ruth, journal editor Caroline, and army of graphic designers who have helped over the year.

I would also like to show my appreciation to our board of trustees for the critical role they play at the IES. Thanks go to Jimi Irwin for overseeing the journal, David Muir for his work as Honorary Treasurer and Jenny Blumhof, now a Vice President of the organisation. Thanks also goes to Will Pope and Carolyn Roberts on their continued representation at SocEnv. To all trustees, my gratitude.

As we look into the 2014 and begin to see a recovery in the global financial ecosystem, growth and increased ambition, I look forward to see what this may herald for the IES. It will be interesting to see if, where the IES led, investing in those green shoots, the rest of the world will follow.

“It will be interesting to see if, where the IES led, investing in those green shoots, the rest of the world will follow”

Website developments

The screenshot shows the IES website homepage with the following elements:

- Header:** "The institution of environmental sciences" logo and a search bar.
- Navigation:** "Join Us", "Our Values", "News", "Analysis", "Events", "Jobs", "Resources", "About Us".
- Hero Image:** "Science & Sustainability" with a world map background.
- Latest from the IES:** A grid of colorful icons representing various topics.
- Our new Members' Area:** Text describing the new membership dashboard.
- IES flooding letter to UK Government:** A news item with a "Policy" icon.
- Uptake of the ecosystems approach:** A news item with an "Ecosystems Knowledge Network" icon.
- About the IES:** A section describing the organization's mission and vision.
- Featured jobs:** A list of job openings including "Senior/Principal Air Quality Consultant" in Brighton and "Competitive" roles in Central London.
- Featured events:** "Waste Management and Recycling" in Sofia, Bulgaria.
- Latest publications:** "The Energy Trilemma" journal.

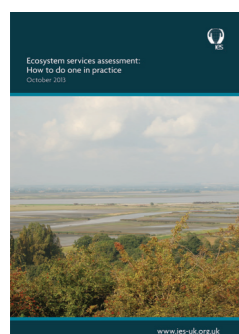
New website features in 2013

- An entirely rebuilt front and back end to make the website much faster
- New cleaner design makes it easier to read and navigate
- New search feature
- Responsive design – adapts to the device that you are reading it on so that it looks good on your mobile or tablet.

Our Analysis pages (www.ies-uk.org.uk/analysis) are where professionals come to debate contemporary environmental issues. The year kicked off with a series of pieces on Part 2a of the Environmental Protection Act. Richard Jackson, Sustainability Manager at the ODA, and Shaun McCarthy, Chair of the Commission for a Sustainable London 2012 discussed energy, carbon and waste throughout the delivery of the London 2012 in a podcast in March. We published blogs on the value of nature, the London Air App, the importance of local high streets, a low carbon future for Bristol, the application of gamification to sustainability and on ethical design. One of our most popular downloads was a technical note that examined the current UK legislative landscape within which the local authority air quality management duties reside.

350 additional unique visitors a month in 2013 compared with the previous year

Reports



Engaging with challenges for the sector Ecosystem services assessment: How to do one in practice

This document provided guidance on how to make an ecosystem services assessment. It explained what ecosystem services are, why an ecosystem services assessment needs to be made, and how it can add impact to your work.



Public engagement in the GEES disciplines

This good practice guide explores the challenges, benefits and opportunities associated with higher education institutions (HEIs) engaging the public in the disciplines of geography, earth and environmental science (GEES).



Technical interfaces modelling forum: Outcomes from the workshop

The Transport and Air Quality Modelling Forum was organised for a practitioner-level discussion between Air Quality and Transport Modellers to seek to standardise and advance current practice. The aim was to produce practitioner-led recommendations that can be adopted as standard practice across the modelling communities.

In 2014 the IES will continue to produce high quality sector-leading reports.

Highlights of the forthcoming year include an updated salary survey report and the results of our survey on how air quality and planning is resourced and managed at Local Authority level. We will also continue to focus on IES members in the workplace with a report on older members finding work.

Recognising excellent research



This year's winner of the IES' John Rose Award was Alpa Patel from Brunel University. Her research focused on how pharmaceutical contamination within rivers might affect fish. She used ibuprofen as her study drug to establish if we can use knowledge of how pharmaceuticals work in humans to predict their potential effects in fish.

Alpa Patel is working closely with an illustrator, video editor and a team at the IES to produce a short animated film which explains her work.

Past & Present

2013 2014

Speaking Up

We undertook policy initiatives that put environmental science and evidence at the heart of policy, with a number of our policy letters receiving national press coverage.

Member Care

We increased staff time allocated to membership care to ensure our high standards of customer service were maintained as membership grew.

Starting Out

More and more of our early career members have benefitted from our mentoring scheme, with 16 successful partnerships made last year.

Forging Lines

We are leading the review of government guidance in four key environmental areas, ensuring guidance is clear, concise and useful to business, professionals and the public.

Member Events

Additional staff time will be spent engaging with members, finding out their needs and developing targeted resources.

Younger and Older

A new social media networking group will give a stream of useful resources to graduates, but we will also focus on an often-neglected group: older members looking for work.

Then and Now

Our final publication of 2013 took a look at how environmentalists continue to learn from the past and how it can affect the decisions that are made today.

Responsive Design

Our website has been optimised for a smoother user experience: it looks better on your mobile or tablet devices and is quicker and easier to navigate.

Here to Help

One of our most popular downloads was our guidance outlining how to perform an eco-system's service assessment.

Sector Groups

These newly formed groups have provided a platform for debate and discussion between members in specialist areas.

Unfolding Issues

Following on from an initial publication on energy, the forthcoming environmental SCIENTIST will offer opinions on topical contentious issues in environmental science.

Over to You

Members can now log in to manage renewals online as well as update personal details and access exclusive resources.

A Hat Trick

Three guidance documents are planned on Odour, Construction Dust and Air Quality and Planning.

Come Together

Our regional groups will offer you the opportunity to meet local members, engage with local businesses and universities and network.

“WE WANTED TO CREATE A WAY OF DELIVERING OUR MEMBERSHIP SERVICES THAT WAS NOT JUST SECTOR-SPECIFIC, BUT ALSO LOCALLY-RELEVANT”



In 2013 I was given the honour of being the first CEO in the IES's 42 year history. I would like to thank the Council for the support they have given me over my eight years with the IES.

Adam Donnan,
CEO March 2014

An emerging structure

The IES membership grew considerably again last year, with a 12 per cent increase on the previous year. These additional members – compounded with strong growth over the previous five years – meant the IES reached a size where we needed to re-examine its structure. With the geographical spread of our memberships and the range of specialisms that we now represent, the one-size-fits-all approach was no longer appropriate.

The results of this reconsideration initially saw an articulation of the sectors that we represent. As a result of this work, special interest groups were launched in the areas of land contamination, impact assessment, energy and environmental science in government. These were in addition to the existing specialist areas of air quality (represented by the IAQM) and education (represented by CHES). More will be added in the future.

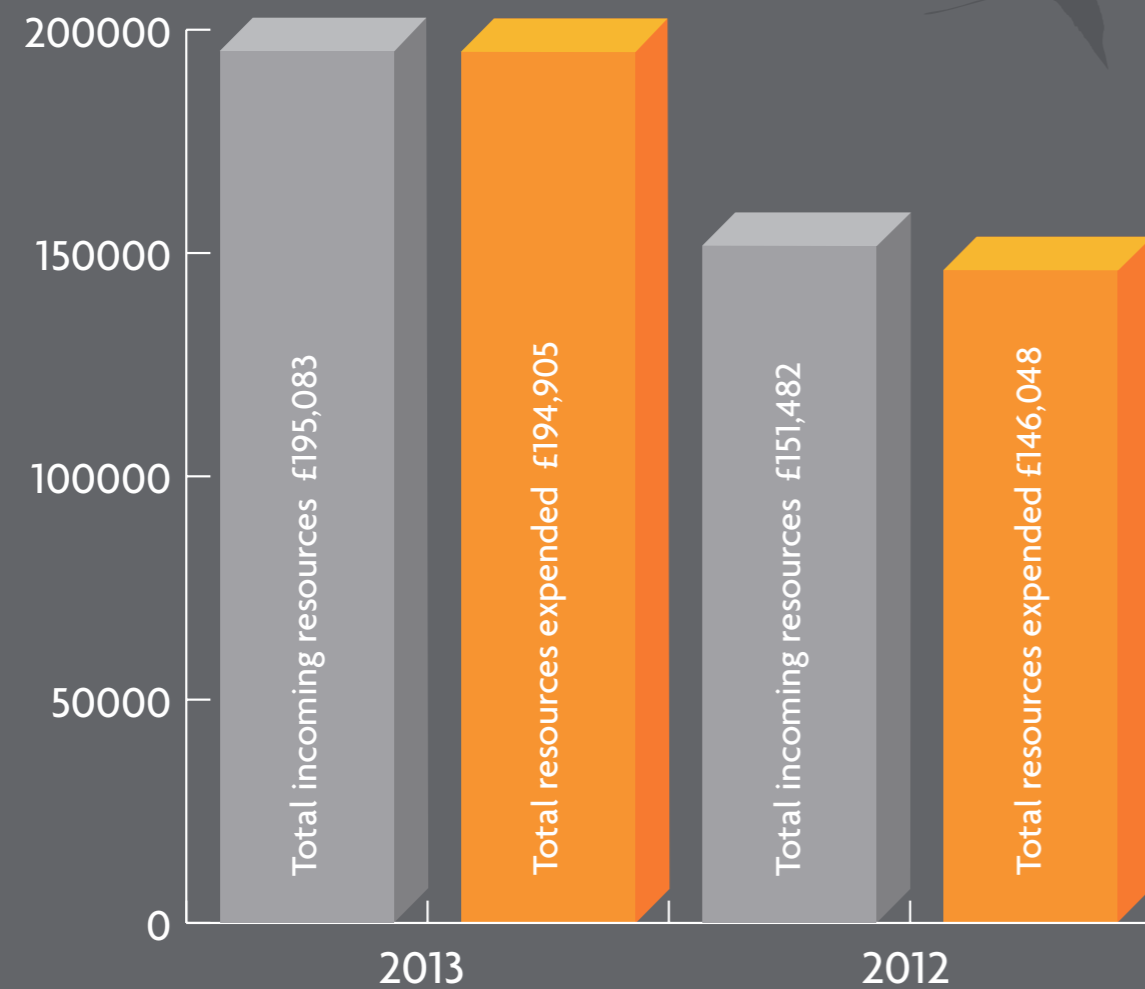
We wanted to create a way of delivering our membership services that was not just sector-specific, but also locally-relevant. To this end we launched regional groups in February 2014 and this month we appointed a new dedicated member of staff to drive this strategy forward. A concern voiced by members in the past was that the IES has been too London-centric. We will be addressing this issue in 2014 with an ambitious plan of activities across the UK and Ireland.

This new approach is heavily reliant on your involvement. LinkedIn groups for the sectors and regions provide an easy method for you to learn about what is happening in your local area, contribute to discussions and shape our activities in your sector and region. The IES Project Office exists to create resources and events that are relevant to your professional practice. In order for us to do so, we need a vibrant community

generating ideas and keeping us on track, and each member has a part to play in this.

The last few years have seen a great deal of change in both the IES and the external environment and the pace of change seems to be increasing. A new IES is emerging, built on the expertise, ethics and enthusiasm of our members, that fortifies the environmental science profession to deal with emerging environmental challenges.

“we need a vibrant community keeping us on track, and each member has a part to play in this.”



24%

Increase in income in
2012 - 13 financial year

For the year ended 30 June 2013

Statement of financial activities July 2012 - June 2013

	Unrestricted funds £	Restricted funds £	Total 2013 £	Total 2012 £
Incoming resources from generated funds				
Voluntary income	8,126	-	8,126	4,782
Investment income	133	-	133	127
Incoming resources from charitable activities	173,166	3,488	176,654	146,573
Other incoming resources	10,170	-	10,170	-
Total incoming resources	191,595	3,488	195,083	151,482
Resources expended				
Funded projects	22,172	1,288	23,460	13,074
Publications & services for members	149,485	-	149,485	123,963
Conferences & consultancy	18,323	-	18,323	4,896
Governance costs	3,637	-	3,637	4,115
Total resources expended	193,617	1,288	194,905	146,048
Net (expenditure)/income for the year/	(2,022)	2,200	178	5,434
Net movement in funds	110,136	1,654	111,790	106,356
Fund balances at 1 July 2012	108,114	3,854	111,968	111,790

The statement of financial activities also complies with the requirements for an income and expenditure account under the Companies Act 2006.

Sister organisations

IAQM

The European Commission declared 2013 to be the 'Year of Air' and it was also an important year for the professional body representing air quality professionals.

Throughout 2013 IAQM argued for the positive role that regulation and good guidance plays in maintaining air quality. The Government proposed changes to the Local Air Quality Management system, and we were one of a number of organisations that successfully asked them to reconsider these. We were particularly pleased with the strengthening relationship between IAQM and Defra, with Robert Vaughans speaking at our AGM. We also urged Government to update the Air Quality Strategy to reflect current circumstances and to provide a framework for future policies.

We held an event in York on vehicle emissions and two conferences in London: air quality and planning; and dispersion modelling. An exciting programme of events has been sketched out for 2014, including a number of discussion meetings that will be free to members.

GROWTH OF IAQM MEMBERSHIP IN 2013: 9%

In March we launched our new logo and website. The new website provides a fantastic search facility to look for old guidance and presentations from the eleven years of the IAQM.

In 2014 IAQM has already published guidance on the assessment of construction dust. Our new odour guidance will launch shortly and we are working with EPUK to update the guidance on air quality assessment for planning. These provide valuable advice for air quality professionals and reinforce our position as the authoritative voice for best practice in air quality.

CHES

Recent changes within Higher and Further Education led the CHES Executive Committee to examine its structure and services it offers its members in 2013, with the result that CHES merged with the IES.

The two organisations have worked closely together since 2001 and CHES staff members have been based in the IES offices since 2006. The new arrangement will give CHES access to IES researchers, marketing staff, designers and administration staff, allowing CHES to offer a more comprehensive, efficient and modern service.

As part of this process we clarified the benefits of membership for departments and simplified the joining process. The community responded positively to the changes with a further ten programmes and three universities joining the accreditation scheme. We were particularly pleased to accredit our first further education programme, a foundation degree at South West Colleges.

65 PROGRAMMES ACCREDITED ACROSS 24 UNIVERSITIES

In July we held our annual conference, which this year was held at the Open University on the topic of technology enhanced learning for GEES.

In 2014 we will be further strengthening our membership offering to the universities and colleges that make up CHES. We will be launching an exciting research project tracking employability skills in students and recent graduates.

We would like to thank Phil Wheeler for his skilful leadership of the committee, Diana Purchase for writing our newsletters, and all the CHES committee for their valuable voluntary input.

Council Officers & Staff Members

Senior Vice President: John Baines MBE
Vice Presidents: Jenny Blumhof, Mark Everard, Jim Longhurst, William Pope, Carolyn Roberts

The Honorary Officers of Council, who are also Council Members, from the 2013 AGM were:

Chair: Heather Barrett-Mold FIEnvSc CEnv CSci
Vice Chair: Noel Nelson MIEnvSc MIAQM
Honorary Secretary: Phil Holmes MIEnvSc
Honorary Treasurer: David Muir MIEnvSc FIAQM CEnv CSci
Company Secretary: Jim Longhurst FIEnvSc CEnv CSci

The Members of Council from the 2013 AGM were:

Dr Heather Barrett-Mold FIEnvSc CEnv CSci
Mrs Jennifer Blumhof FIEnvSc CEnv CSci
Mr Roger Barrowcliffe MIEnvSc MIAQM CSci
Ms Gayle Burgess MIEnvSc CEnv
Dr John Burns MIEnvSc CEnv CSci

Dr Mark Everard FIEnvSc CEnv CSci
Professor Bernard Fisher FIEnvSc MIAQM CEnv CSci
Mr Phil Holmes MIEnvSc
Professor James Irwin FIEnvSc MIAQM
Professor James Longhurst FIEnvSc CEnv CSci
Dr David Muir MIEnvSc FIAQM CEnv CSci
Professor Noel Nelson MIEnvSc MIAQM
Professor William Pope FIEnvSc CEnv
Mr Michael Quint MIEnvSc CEnv CSci
Dr Laurie Richards MIEnvSc CEnv
Professor Carolyn Roberts FIEnvSc CEnv CSci
Dr Pete Shaw FIEnvSc CSci
Professor Phil Wheeler FIEnvSc CSci
Dr Jim Whelan MIEnvSc CEnv CSci

Staff members and contractors on 31st December 2013 consisted of:

Chief executive officer: Adam Donnan
Project officer: Emma Fenton
Administrator: Ruth Bowyer
Graphic designer: Darren Walker
Journal sub editor: Caroline Beattie

www.ies-uk.org.uk

IES is a member of the following organisations:

