



The Chief Scientific Officer's

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**HEALTHCARE  
SCIENCE  
AWARDS  
2017**

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**THE  
WINNERS  
GUIDE**



creative|learning|events

# HEALTHCARE SCIENTIST OF THE YEAR AWARD

## winner

### *Professor Paul White*

Consultant clinical scientist and head of clinical engineering at Cambridge University Hospitals Foundation Trust

Over the last 8 years Paul has been working with surgeons at Papworth to see if deceased circulatory donors who typically die of multi organ failure could have their hearts safely used for transplantation. The stakes were very high as so many people were dying on the waiting list.

In 2014 the first DCD in the world was performed at Papworth and since then 20 more have been undertaken. Paul has also worked on ischaemic preconditioning, heart failure, a novel ultrasound index, all of which have changed textbooks.

His commitment to patients, training and his profession is second to none all of which have led to amazing achievements in cardiac physiology.



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# LIFETIME ACHIEVEMENT AWARD

## *Christopher Gibson*

**Wirral Outpatient Parenteral  
Antimicrobial Therapy Service**

**Christopher is the immediate past president of IPEM and became head of the National School of Healthcare Science following Val Davison's tenure. He is also the scientific director for NHS South of England (Central).**

Chris has worked in healthcare science for over 30 years as both a consultant clinical scientist in hospital departments, and as an honorary lecturer and honorary senior research fellow in several universities. His research interests are primarily in image processing and the applications of radiation in medicine.



He has previously held several positions advising the UK government on the safe and effective use of radiation, including membership of the Administration of Radioactive Substances Advisory Committee (ARSAC), and of the Committee on Medical Aspects of Radiation in the Environment (COMARE).

Chris is a visionary and forward thinker. You will see his influence for many years to come in the careers of those who are alumni of the school.

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# LIFETIME ACHIEVEMENT AWARD

## *Val Davison*

Val started her career in the early 1970s when clinical genetic services were in their infancy. Now Val has published more than 60 papers, established and modernised two regional genetics services and developed and introduced automated chromosome image analysis.

Her most significant contribution has been in the field of education and training, in particular the implementation of MSc programmes, first in genetics and then in the wider field of healthcare science and genomics.

Val first established the National Healthcare Science School of Genetics, and after running pilot programmes for two years developed it into the National School of Healthcare Science, which she ran until December 2013.



The impact of this work has been huge, establishing consistent and evidence-based training programmes across 27 diverse scientific specialisms, with just under 1,000 scientists currently in training for clinical roles within the NHS.

Val now devotes her time to the genomics education programme which is a critical part of the delivery of the 100,000 Genomes Project. For this she has received an MBE for services to genomic technologies.

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# HEALTHCARE SCIENCE RISING STARS



## winner

### *Glafkos Havariyoun*

Imaging physicist, King's College Hospital  
NHS Foundation Trust

Glafkos has just started his PhD and has already proven himself in clinical service improvement research and as an ambassador for healthcare science. He always goes above and beyond for patients and the profession.

He has had many achievements since starting STP in 2013 including winning 'I'm a Scientist Get Me Out of Here' and 12 conference presentations on various clinical optimisation projects. Glafkos was nominated by Jo Young who said he's not so much a rising star as a shooting star.

'Excellent fantastic young scientist – genuinely wants to promote positive stories about HCS in the NHS. Prolific writer and superb researcher.'



## highly commended

### **Nicola Svenson**

Higher specialist scientist trainee in haematology nominated by Heidi Cox, senior clinical biochemist

*Hull & East Yorkshire Hospitals NHS Trust*

### **Karen Stals**

Clinical scientist nominated by Emma Baple, consultant clinical geneticist

*Royal Devon & Exeter NHS Foundation Trust*

### **Kaiya Chowdhary**

Pre-registration scientist nominated by Dominic Harrington, scientific director

*Viapath*



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# HEALTHCARE SCIENCE PARTNERING PATIENTS AND CITIZEN AWARD



## winner

Accelerated Red Cell Transfusion  
for Selected Patients who Receive  
Blood Transfusions at Home

### *Sharran Grey*

Principal clinical scientist/blood  
transfusion clinical lead,  
Bolton NHS Foundation Trust

If you need regular blood transfusions, as many patients do, you can have them at home through the home IV service. However, when Sharran Grey talked to patients they said it took ages and was very tedious.

Sharran undertook a research study to see if their long transfusion times could safely be replaced by accelerated 60 minute ones. These faster transfusions were very popular, giving patients freedom to do other things and also increasing service capacity.



*This was a fantastic project conceived, performed and completed by a scientist. It evolved in response to patient needs, increased productivity of the service and had no adverse impact on patients.*

## finalist

Action on Hearing Loss

**Ann Emery**

service manager

*Isle of Wight Sensory Service*

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# SCIENCE AND ENGINEERING ENGAGEMENT AWARD



## winner

### *Southbank University Technical College*

The Department of Medical Engineering and Physics, King's College Hospital NHS Foundation Trust.

For the last five years, the medical engineering and physics department has been working with London Southbank University developing the Southbank University Technical College (UTC) which specialises in healthcare science. This new school is situated in Brixton, one of the most diverse areas of London.

The Department is regularly involved in co-designed, hands-on projects bringing real-life context to the standard school curriculum. The school – which is described as a 'UTC specialising in engineering for health and the built environment' – opened last year with its first 100 pupils – 26% of whom are girls. The department has been incredibly creative with events such as student Dragons' Den events, designing the Ward of the Future. They have a member of the team on the governing body to ensure continued employer focus.



*Has the potential to influence nationally; all science disciplines are engaged and involved. It targets under represented areas and people superbly. It also links into apprenticeships and wider HCS careers. It provides a fantastic example of very strong leadership with a supportive and knowledgeable team.*

## finalist

Reach Out for  
Healthcare Science

**Richard Fernandez**

principal nuclear medicine physicist and  
Sarah Allen, head of nuclear medicine physics

*King's Health Partners, London*

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# CSO SHIRLEY FLETCHER APPRENTICESHIP AWARD

winner

## *Rebecca Mather*

Apprentice health science associate,  
Department of GI physiology,  
Northern General Hospital, Sheffield

Rebecca was nominated by Lynne Smith, clinical manager at Sheffield Teaching Hospitals, who said that meeting someone so young and so genuinely determined to become a healthcare scientist made her heart sing. Rebecca showed star quality right from the start and has a wonderful rapport with patients.

She's currently working towards the completion of her apprenticeship and wants to become a fully qualified clinical scientist.



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# CSO EQUALITY AND DIVERSITY LEADERSHIP AWARD

## winner

Liverpool Clinical Laboratories (LCL)  
Traineeship Programme

### *Dave Eccleston*

Head of modernising scientific careers,  
Liverpool Clinical Laboratories

Dave runs the traineeship programme aimed at 16-24 year olds in the Merseyside area, particularly Black and Asian youngsters who wouldn't normally have the opportunity to be involved in healthcare science.

The first cohort of students has started with the LCL team and will stay with them for 13 weeks, with another two cohorts on their way, including a cohort for students with learning difficulties. The students get eight weeks of laboratory introduction plus core skills taught at the local further education college.



*Wonderful example of tenacious engagement at all levels. Passionate individual who so obviously cares about creating opportunities in his local community. He has made a real difference to those who may have disadvantaged backgrounds.*

## finalist

**Aarti Makan**  
professional advisor for  
healthcare science and **Ruth**  
**Thomsen**, scientific director  
*HEE/NCEL*

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# SCIENCE IN HEALTH RESEARCH AWARD

{ National School of Healthcare Science

## winner

Fighting antibiotic resistance with science

### *Neil Woodford*

Head, Antimicrobial Resistance and Healthcare Associated Infections (RMHAI). Award collected by Vicki Chalker, head, RVPRBRU, Public Health England

Neil uses science to detect, monitor and understand antimicrobial resistance, one of the most concerning problems of our age. He is head of the Antimicrobial Resistance and Healthcare associated infections reference unit at Public Health England. His expertise in molecular detection of the genetic determinants of key resistances are globally renowned.

Neil has worked on antibiotic resistance for over 25 years, and has authored over 250 publications and edited 3 books. He is a scientist at the top of his game, leading not just the national field but the international one.



*International leader in his field.  
Leading the UK efforts in  
tackling a global problem.*

## highly commended

Fluid assessment in kidney failure patients: using new technology to develop a robust, objective and patient-centred approach

**David Keane**  
clinical scientist

*Leeds Teaching Hospitals Trust*

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# SCIENCE DRIVING INNOVATION IN HEALTHCARE DELIVERY AWARD



## winner

Physiologist-Led Implantable  
Loop Recorder Implant Service

**Susan Mathieson**

Deputy principal cardiac physiologist, and

**Mark Squirrell**

Principal cardiac physiologist,  
Guy's & St. Thomas' NHS Foundation Trust

Heart rhythm abnormalities are caused by a variety of conditions but investigating them is tricky because they occur infrequently.

Susan took a group of patients who would normally be treated in a cath lab and moved them to an outpatient facility. She arranged for patients to be fitted with a long heart monitor called a loop recorder which uses secure wifi to securely transmit arrhythmia data to the hospital. This service is organised by cardiac physiologists, does not require a hospital bed, costs less and is a much better experience for the patient. Their stay is about 90 minutes.



*Using technology to improve diagnosis. Impressive new service model that has made a huge impact on patient care. Transforming roles for cardiac physiologists.*

## finalists

My ICD

**Ian Wright**

principal cardiac physiologist and Emma Walker, trust lead scientist  
Imperial Healthcare NHS Trust

Liverpool Uveal Melanoma Prognosticator Online (LUMPO)

**Azzam Taktak**

clinical scientist and Antonio Eleuter, computer scientist  
Royal Liverpool University Hospital

## highly commended

Meningitis

**Lewis Hurley**

microbiology laboratory manager  
Bolton NHS Foundation Trust

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# SUPPORTERS



**NHS Employers** is the recognised voice of employers in the NHS, supporting them to put patients first. We help employers make sense of current and emerging healthcare issues, provide the latest workforce thinking and expert opinion, and share knowledge and best practice. Our comprehensive range of guidance encourages positive change among the NHS workforce to provide the best service for patients, and is easily accessible via our high profile campaigns and resources.

[www.nhsemployers.org](http://www.nhsemployers.org)  
@NHSEmployers



**National Voices** is the coalition of health and care charities in England. We work with our 160+ member organisations to create health and care systems which are person-centred. This means that care is coordinated, people are in control of decisions about their health and care and everyone has fair access to care and support. We believe that patients and citizens should be active partners in research and innovation, and recently developed a new standard for involvement as part of the Accelerated Access Review.

[www.nationalvoices.org.uk](http://www.nationalvoices.org.uk)



**WISE** enables and energises people in business, industry and education to increase the participation, contribution and success of women in science, technology, engineering and mathematics (STEM). WISE individual members inspire girls to choose maths, physics and computing and WISE organisational members attract, retain, develop and progress female talent in their companies.

- The WISE mission is gender parity in the UK's scientific, technology and engineering workforce, from classroom to boardroom; we achieve this by:
- Sharing insight and knowledge about the causes of and solutions to gender imbalance in STEM in the UK
- Collaborating with and connecting WISE members to be THE leaders, role models and champions of gender balance
- Amplifying impact through inspirational awards, events and campaigns

[www.wisecampaign.org.uk](http://www.wisecampaign.org.uk)



The **National School of Healthcare Science** was established in October 2011 as part of the Modernising Scientific Careers programme.

The role of the School is to support the implementation and delivery of the healthcare science education and training programmes set out in Modernising Scientific Careers: The UK Way Forward published by the Department of Health.

The aim of the educational programmes is to train staff that will be able to work at the highest level in healthcare, understanding and advising on the most recent advances in science and technology, able to develop and innovate with a focus on enhanced patient care, and with flexibility and adaptability to work across multiple care pathways.

The School safeguards the delivery of high quality education and training for healthcare science and has established partnerships with professional bodies, royal colleges, universities, national and regional education and commissioning leads, as well as NHS establishments delivering the blended educational programmes.

The School supports education and training across the career framework, including 1,000 trainees on the NHS Scientist Training Programme and the Higher Specialist Scientist Training in over 600 training departments. It provides guidance and support to trainees on the Practitioner Training Programme, and support for the development of education programmes and apprenticeships for staff in earlier career stages.

[www.nshcs.hee.nhs.uk](http://www.nshcs.hee.nhs.uk)



The **Academy for Healthcare Science (AHCS)** brings together the UK's diverse and specialised scientific community who work across the health and care system and the academic sector to speak with one clear voice. The Academy's exists to:

- Provide one clear voice for healthcare science
- Influence and inform the health and care system on healthcare science and scientific services
- Provide engagement and support for wider strategic scientific initiatives
- Act as the overarching body for issues related to education, training and development,

including standards and quality assurance.

[www.ahcs.ac.uk](http://www.ahcs.ac.uk)