



The Internet and the Web have grown from modest beginnings to hosting over 50 billion pages of information today. All five winners have been instrumental in guiding this process, technically and politically.

This award was created to raise the profile of engineering and to emphasize its importance to society, celebrating achievement along the way. Vint Cerf described this succinctly; "The Queen Elizabeth Prize for Engineering is a stunning and welcomed recognition of the power of engineering to effect change."

With this award, the next stages will be equally important; encouraging young people to think deeply about engineering, and society to appreciate its breadth and scope. "I firmly believe our field's best days are ahead of us," said Andreessen, "and I can't wait to see what the next generation of engineers will accomplish."

SET FOR BRITAIN 2013

On Monday 18th March SET for Britain 2013, the annual poster competition and exhibition, was held in the House of Commons Terrace Marquee. Andrew Miller MP, Chairman of the Parliamentary and Scientific Committee, acted as host to early-career researchers from all over the country who brought their posters to Westminster to take part in the competition and to present their research to their local Members of Parliament. During the course of the day the SET for Britain organisers were delighted to welcome 77 Parliamentarians from both Houses.

The competition was divided into three sections: Physical Sciences (Chemistry and Physics), Engineering, and Biological and Biomedical Sciences. The posters in each section were judged by experts from the Royal Society of

Chemistry, the Institute of Physics, the Royal Academy of Engineering, the Society of Biology and The Physiological Society.

The judges' difficult task had begun two months earlier with

the selection of 180 posters (60 in each section) for the exhibition from a field of over 500 high quality entries.

Medals were awarded to the winners in each discipline, together with Gold, Silver and

Bronze Awards of cash prizes. These awards were made possible by generous donations from INEOS Group, BP, EADS, Airbus, AgChemAccess, Essar, GAMBICA, WMG and the Institute of Biomedical Science.

Finally, the winners of the four Gold awards were judged on the strength of their skill in communicating the scientific concept in their poster by Dr David Dent, Dr Doug Naysmith and Andrew Miller MP. The Westminster Medal, donated by the SCI in memory of Dr Eric Wharton, who established SET for Britain, and ran the events for many years with his wife Sue, was presented to Dr Valeska Ting, winner of the Gold award in the Engineering session.



PRIZE WINNERS

CHEMISTRY

Gold Award: £3,000 and Roscoe Medal: **Mr Christopher Spicer**, Department of Chemistry, University of Oxford: SUZUKI BIOLOGY: PALLADIUM MEDIATED REACTIONS UNDER AMBIENT CONDITIONS

Silver Award: £2,000: **Mr Stephen Bromfield**, Department of Chemistry, University of York: HEPARIN RESCUE: SELF-ASSEMBLING NANOSYSTEMS AS POTENTIAL PROTAMINE REPLACEMENTS

Bronze Award: £1,000: **Mr Timothy Rooney**, Department of Chemistry, University of Oxford: DEVELOPING SMALL MOLECULE INHIBITORS OF THE CREBBP BROMODOMAIN-HISTONE INTERACTION



Chemistry Prizewinners:

Tom Crotty (Director, INEOS Group), Dr Stephen Benn, Christopher Spicer (Chemistry Gold Award Winner), Andrew Miller MP, Professor Lesley Yellowlees (President, Royal Society of Chemistry), Stephen Bromfield (Chemistry Silver Award Winner), Steve Brambley (Deputy Director, GAMBICA), Timothy Rooney (Chemistry Bronze Award Winner), Paul Biebuyck (Registrations Manager, AgChemAccess).

PHYSICS

Gold Award: £3,000 and Cavendish Medal: **Miss Claire Woollacott**, School of Physics, University of Exeter: DIRAC-LIKE PLASMONS IN HONEYCOMB LATTICES OF METALLIC NANOPARTICLES

Silver Award: £2,000: **Mr Christian Baker**, Acoustics and Ionising Radiation, National Physical Laboratory: IMPROVED ULTRASOUND CT OF BREASTS FOR CANCER SCREENING

Bronze Award: £1,000: **Ms Emma Wisniewski-Barker**, Physics and Astronomy, University of Glasgow: SLOW DARKNESS



Physics Gold Award:

Tom Crotty (Director INEOS Group), Claire Woollacott (Physics Gold Award Winner), Dr Stephen Benn and Andrew Miller MP



Chemistry Gold Award:

Tom Crotty (Director, INEOS Group), Christopher Spicer (Chemistry Gold Award Winner), Andrew Miller MP



Physics Prizewinners:

Tom Crotty (Director INEOS Group), Christian Baker (Physics Silver Award Winner), Dr Stephen Benn, Professor Sir Peter Knight (President, Institute of Physics), Claire Woollacott (Physics Gold Award Winner), Andrew Miller MP, Paul Biebuyck (Registrations Manager, AgChemAccess), Emma Wisniewski-Barker (Physics Bronze Award Winner), and Steve Brambley (Deputy Director, GAMBICA).

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ENGINEERING

Gold Award: £3,000 and Engineering Medal: **Dr Valeska Ting**, Department of Chemical Engineering, University of Bath: PUSHING HYDROGEN TO THE LIMIT: ENGINEERING NANOMATERIAL SYSTEMS FOR STORAGE OF SOLID-LIKE HYDROGEN

Silver Award: £2,000: **Dr Paul Richmond**, Automatic Control and Systems Engineering, University of Sheffield: HIGH PERFORMANCE MASSIVE SCALE AGENT-BASED SIMULATION

Bronze Award: £1,000: **Mr George Gordon**, Electrical Engineering, University of Cambridge: MODE-DIVISION MULTIPLEXING FOR ULTRAFAST OPTICAL FIBRE COMMUNICATIONS



Thomas Hoskins and Shabana Mahmood MP



Andy Slaughter MP and Mark Glanville



Anne Milton MP and Samantha Rason



Engineering Gold Award: Philip Greenish (Royal Academy of Engineering), Dr Valeska Ting (Gold Award Winner) and Neil Scott (Vice President, Engineering, Airbus).



Omar Abdelkerim and Rt Hon Hazel Blears MP



Jim Cunningham MP and Jesper Christensen



Engineering Group Prizewinners Neil Scott (Vice President, Engineering, Airbus), Dr David Clark (Principal Fellow, WMG), Philip Greenish (Royal Academy of Engineering), George Gordon (Bronze Award Winner), Dr Stephen Benn, Dr Valeska Ting (Gold Award Winner), Andrew Miller MP, Dr Paul Richmond (Silver Award Winner), Volker Schultz (CEO, Essar Oil UK Ltd) and Mrs Sue Wharton.

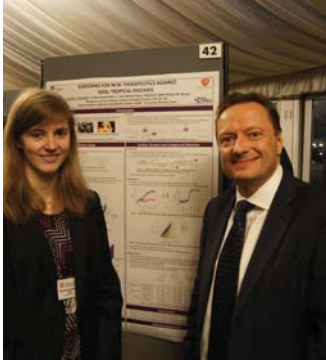


BIOLOGICAL AND BIOMEDICAL SCIENCES

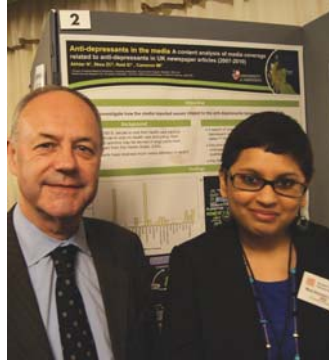
Gold Award: £3,000 and GW Mendel Medal: **Miss Joanna Brunker**, Medical Physics and Bioengineering, University College London: PHOTOACOUSTIC DOPPLER FLOWMETRY: STUDY OF BLOOD FLOW IN TUMOURS

Silver Award: £2,000: **Mr Nick Morant**, Research and Development, GeneSys Ltd/University of Bath: PATHOGEN DETECTION: FAST, SIMPLE, PORTABLE

Bronze Award: £1,000: **Dr Nicola Hemmings**, Animal and Plant Sciences, University of Sheffield: HOW EXAMINING EGGS CAN SAVE ENDANGERED SPECIES



Jason McCartney MP and Jennifer Nordcliffe



Frank Doran MP and Nooreen Akhtar



Bioscience Gold Award: Professor Jonathan Ashmore FRS (President, The Physiological Society), John Pierce (Chief Bioscientist, BP), Dr Mark Downs (Society of Biology), Joanna Brunker (Gold Award Winner), Dr Stephen Benn (Society of Biology).



Sir Gerald Howarth MP and Nick Morant, winner of the Silver award



Bioscience Prizewinners: The Rt Hon Lord Jenkin of Roding, Dr Mark Downs (Society of Biology), Professor Jonathan Ashmore FRS (President, The Physiological Society), Joanna Brunker (Gold Award Winner), Dr Stephen Benn (Society of Biology), Dr Nicola Hemmings (Silver Award Winner), Andrew Miller MP, Nick Morant (Silver Award Winner), Derek Bishop (President, Institute of Biomedical Science), John Pierce (Chief Bioscientist, BP).

WESTMINSTER MEDAL

Westminster Medal in memory of Dr Eric Wharton (overall winner): **Dr Valeska Ting**, Department of Chemical Engineering, University of Bath: PUSHING HYDROGEN TO THE LIMIT: ENGINEERING NANOMATERIAL SYSTEMS FOR STORAGE OF SOLID-LIKE HYDROGEN



The four Gold Award Winners compete for the Westminster Medal, which was won by Dr Valeska Ting.

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