

SET FOR BRITAIN 2014

Parliament Showcases Britain's Future

Scientists Engineers Technologists Mathematicians

SET for Britain 2014, the annual poster competition and exhibition for early-career researchers, was held on Monday 17th March in the House of Commons Terrace Marquee. Andrew Miller MP, Chairman of the Parliamentary and Scientific Committee, acted as host to scientists, engineers, technologists and (for the first time) mathematicians 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 84 Parliamentarians from both Houses.

Medals, certificates and cash prizes were awarded to the Gold, Silver and Bronze winners. These awards were made possible by generous donations from INEOS Group, BP, Essar Oil UK, Clay Mathematics Institute, WMG, Germain's Seed Technology, Boeing, Bank of England and the Institute of Biomedical Science.

The competition was divided into five sections: Biological and Biomedical Sciences, Chemistry, Engineering, Mathematical Sciences and Physics. The posters in each section were judged by experts from the Society of Biology, The Physiological Society, the Royal Society of Chemistry, the Royal Academy of Engineering, the Council for the Mathematical Sciences and the Institute of Physics.

The judges' difficult task had begun two months earlier with the selection of 210 posters (60 Bioscience and Engineering; 30 in each of the other sections) for the exhibition from a field of over 500 high quality entries.

Finally, the winners of the four Gold awards competed for the Westminster Medal, donated by the SCI in memory of Dr Eric Wharton. The judges for this part of the competition were Pallab Ghosh, Science Correspondent, BBC News; Professor Michael Elves and Andrew Miller MP. In view of the diversity of subject matter, their challenge was to assess the presenters on the strength of their skill in communicating the scientific concept in their poster. The Westminster Medal was presented by Derek Heywood, Board of Trustees SCI, and Mrs Sue Wharton to Dr Maria Jose Marin Altaba, University of East Anglia, winner of the Gold award in the Chemistry section.



SET for BRITAIN

Presentations by Britain's Early-Stage Researchers
in Science, Engineering, Technology and Mathematical Sciences
at the House of Commons



Monday, 17th March 2014

Engineering and Mathematical Sciences Exhibitions

12.15 pm - 2.40 pm

Biological and Biomedical Sciences Exhibition

3.30 pm - 5.30 pm

Physical Sciences Exhibition (Chemistry and Physics)

6.30 pm - 8.45 pm

Presentation of Westminster Medal

9.00 pm





Presentation of the Engineering Medal and Gold Award to Dr Stephen Hicks, University of Oxford. L-R: Volker Schultz, CEO Essar Oil UK Ltd, Stephen Hicks, Andrew Miller MP, Sir John Parker, President, Royal Academy of Engineering.



Nicola Blackwood MP with Dr Llion Evans, Culham Centre for Fusion Energy



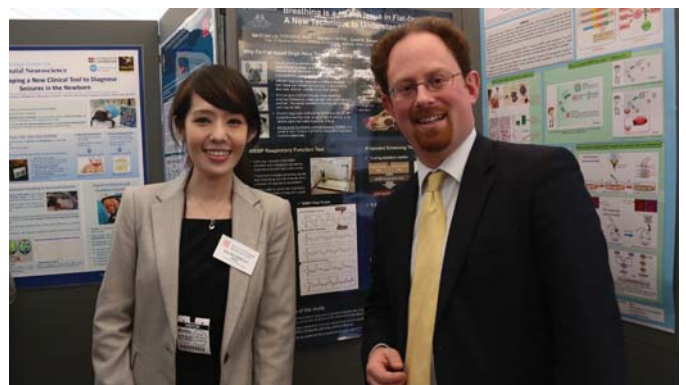
Presentation of the Mathematical Sciences Medal and Gold Award to Dr David Platt, University of Bristol. L-R: Dr Platt, Professor Nick M J Woodhouse, Clay Mathematics Institute, Andrew Miller MP.



Rt Hon Peter Hain MP with Dr Julie Vile, Cardiff University, who won the Bronze Award for Mathematical Sciences.



Graham Robertson, University of Strathclyde, receives the GW Mendel Medal and Gold Award. L-R: John Pierce, Chief Bioscientist, BP; Dr Philip Wright, Chief Executive, The Physiological Society; Dr Mark Downs, Chief Executive, Society of Biology, Graham Robertson, Andrew Miller MP.



Miss Nai Cieh Liu, University of Cambridge, with Dr Julian Huppert MP

PRIZE WINNERS

ENGINEERING

Gold Award and Engineering Medal

Dr Stephen Hicks, University of Oxford
SMART GLASSES TO HELP THE BLIND SEE

Silver Award

Dr Claire Donoghue, Imperial College London
TEACHING MACHINES TO DIAGNOSE KNEE OSTEOARTHRITIS FROM MRI

Bronze Award

Mr Christopher Spargo, Newcastle University
RELUCTANCE REVOLUTION: ENGINEERING A SUSTAINABLE FUTURE

MATHEMATICS

Gold Award and De Montfort (Mathematical Sciences) Medal

Dr David Platt, University of Bristol
PROVING GOLDBACH'S WEAK CONJECTURE

Silver Award

Dr Christian Yates, University of Oxford
CONTROLLING LOCUST PLAGUES: MATHEMATICAL MODELLING LEADS TO UNDERSTANDING OF HOW CANNIBALISM STABILISES SWARMING IN DESERT LOCUSTS

Bronze Award

Dr Julie Vile, Cardiff University
TIME-DEPENDENT STOCHASTIC MODELLING FOR PREDICTING DEMAND AND SCHEDULING OF EMERGENCY MEDICAL SERVICES



Miss Morelia Camacho-Cervantes, University of St Andrews, with Rt Hon Sir Menzies Campbell MP



L-R: Professor Paul Hardaker, Chief Executive, Institute of Physics; Richard Longden, INEOS Group, Dr Tessa Baker, University of Oxford, winner of the Cavendish Medal and Physics Gold Award; Andrew Miller MP.



Rt Hon Vince Cable MP, Secretary of State for Business, Innovation and Skills, with Dr Elly Martin, National Physical Laboratory.



Rt Hon David Willetts MP, Minister for Universities and Science, and Dr Alexander Merle, University of Southampton, listen to Jan Mertens, winner of the Physics Silver Award.



Dr Maria Jose Marin Altaba, winner of the Roscoe Medal and Chemistry Gold Award, with L-R: Professor Lesley Yellowlees, President, Royal Society of Chemistry; Richard Longden, INEOS Group; Andrew Miller MP.



Dr Maria Jose Marin Altaba, winner of the Westminster Medal, seen here with L-R: Pallab Ghosh, Science Correspondent, BBC News; Mrs Sue Wharton; Dr Stephen Benn, Society of Biology; Derek Heywood, SCI; Andrew Miller MP; Professor Michael Elves.

BIOLOGICAL AND BIOMEDICAL SCIENCES

Gold Award and GW Mendel Medal

Mr Graham Robertson, University of Strathclyde
HEALTHY COMMUNICATION: BRAIN DISORDERS ON A CHIP

Silver Award

Miss Amelie Heuer-Jungemann, University of Southampton
CANCER DETECTION AND TREATMENT VIA DNA-GOLD NANOPARTICLE CONJUGATES

Bronze Award

Miss Morelia Camacho-Cervantes, University of St Andrews
THE ADVANTAGES OF BEING SOCIAL IN A GLOBALLY INVASIVE FISH

CHEMISTRY

Gold Award and Roscoe Medal

Dr Maria Jose Marin Altaba, University of East Anglia
QUICK AND SIMPLE DIAGNOSTIC FLU TEST USING GOLD AND SUGARS

Silver Award

Dr Adrian Boatwright, University of Leicester
NANOPARTICLES WITH MAGNETISM APPROACHING THE THEORETICAL LIMIT

Bronze Award

Mr Daniel Toolan, University of Sheffield
DYNAMICAL STUDIES OF SPIN-COATED POLYMER FILMS

PHYSICS

Gold Award and Cavendish Medal

Dr Tessa Baker, University of Oxford
TESTING GRAVITY WITH COSMOLOGY

Silver Award

Mr Jan Mertens, University of Cambridge
GRAPHENE CONTROLS COLOUR OF PLASMONIC NANOANTENNAS

Bronze Award

Dr Kerry O'Shea, University of Glasgow
PLAYING LEGO WITH ATOMS: FUNCTIONAL OXIDES FOR TECHNOLOGICAL APPLICATIONS

WESTMINSTER MEDAL

Dr Maria Jose Marin Altaba, University of East Anglia