

**YOUNG
ENGINEERS**
Talent • Skills • Enterprise

Patron: HRH The Duke of York, KCVO, ACD



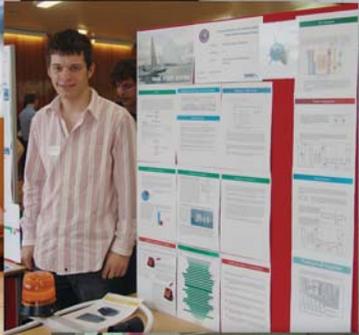
National Final Awards Ceremony 2005

Featuring: Young Engineers Club Awards, Young Engineers for Britain, Young Electronic Designer Awards, Leadership and Industry Awards, Junior Engineers for Britain K'Nex Challenge

Tuesday 13 September 2005 Old Royal Naval College, Greenwich, London

Young Engineers for Britain & YEDA

2005



Forward by the Chairman of Young Engineers

Welcome to this year's Annual Celebration of Engineering where I am honoured to be able to present some of the country's finest Young Engineers. All have been successful in their regions and I am certain that you will be impressed by their overall professionalism, innovation and skill.

I am also delighted to report that the last year has seen significant advances for Young Engineers, with, amongst other achievements:

- Consolidation of the organisation following the merger with YEDA.
- Over 80,000 young people participating in a Young Engineers activity of some kind.
- Expansion of our club network to well over 1,100 clubs.
- Closer links with the Royal Academy of Engineering's Best Programme.

Impressive as these might be, if we are to strengthen our position as a wealth-creating nation, we need to attract greater numbers of our young people into engineering. This needs to start as early as possible in the education process and we are well placed to rise to this challenge and thereby ensure that our sponsors, to whom we are immensely grateful, see value in their investment.

Having recently appointed a new Chief Executive, we have commenced a major review of our products and services, to ensure we truly understand what it is that our 'customers' expect of us, and that we are in a position to deliver it.

Finally, I am very confident that the future is bright for all Young Engineers and I look forward to the coming year with a real sense of excitement.

Ken Sanders
Chairman Young Engineers

Celebration of Engineering Programme

Tuesday 13th September 2005 Annual Celebration of Engineering

9.30 Judging commences for Clubs and Young Engineers for Britain projects

Judging continues throughout the day and will be interspersed with engineering activities for the students.

12.30 Junior Engineers for Britain K'Nex Challenge commences

14.30 All judging completed

17.00 Project viewing in the Queen Mary Ante Room

17.45 Pre-dinner reception

19.00 Celebration Awards Dinner in the Painted Hall

Compere: Kate Bellingham, Young Engineers President, engineer and TV Presenter
Guest of Honour and Award's Presenter: Richard Hammond, TV Presenter

21.45 Annual Celebration of Engineering awards concludes

The venue for the 2005 Annual Celebration of Engineering, the Old Royal Naval College, is one of London's most famous riverside landmarks and home to a wealth of Royal and Military history.

Built upon the birthplace of Henry VIII, the current buildings were designed by Sir Christopher Wren in the early eighteenth century and were completed by various architects including Hawksmoor and Vanburgh. The magnificent Painted Hall is decorated with stunning paintings by Sir James Thornhill.

The current buildings began life as a seaman's hospital before becoming a training centre for Royal Navy officers. The Royal Navy handed the site over to the University of Greenwich and Trinity College of Music in 1998.

Celebration of Engineering Awards

Leadership and Industry Awards

The Leadership and Industry Awards are made to individuals and organisations who provide exemplary support to Young Engineers clubs and competitions. The recipients have shown outstanding dedication and expertise and have clearly demonstrated that technology, science and engineering is fun and exciting.

Best Supporting Company

Best Supporting Individual

Best Supporting Club Leader

Young Engineers Special Awards

The Special Awards are supported by Engineering and Electronic organisations with an interest in a specific area of engineering.

£250 CLUB Award for Craftsmanship

£250 CLUB Award for Teamwork

YEB European Engineering Experience for the Project with the Most Benefit to the Community

£500 YEB Award for Craftsmanship

£1,000 YEB Award for Innovation from a New School

£1,000 YEB Award Best Project for a Disability Need

£1,000 YEB Award Most Innovative Use of Technology

£1,000 YEB Award Best Project for the Built Environment

£1,000 YEB Award Most Innovative Electrical Engineering Application

£1,000 YEB Award the Most Innovative Solution for a Sustainable Environment

Duke of York's Award for Electronics – £1,000

Young Engineer for Britain – Overall Winner – £2,500

Young Engineers who will represent the UK at the 2006 Intel International Science and Engineering Fair in the USA.

Young Engineers for Britain & YEDA National Finalists

Skipton Girls High School, North Yorkshire
Emma Dixon, Rebecca Hartley, Robyn Lavery, Emma Walker

Stand A 01

Sensa Cane

An electronic cane with a built in sensor and warning which warns the visually impaired when they have reached the top of a flight of stairs.



St Anthony's Girls' School, Sunderland
Alex Dunn, Faye Maughan

Stand A 02

Waste Recycling Bin

A bin designed to educate primary pupils about recycling.

The Junior King's School, Canterbury
Sarah Cotterill, Ralph Morley, Ifeoluwa Otedola, Desmond Tang

Stand A 03

Too Much Noise

An electronic device to prevent school classrooms from getting too noisy.



Winner

Runner-up

Young Engineers for Britain & YEDA National Finalists

Bristol Grammar School, Bristol Simon Roach

Stand B 04

Squash Scoring Device

An electronic device for counting and displaying squash match scores using English scoring and LEDs to represent which player has the serve while six 7-segment displays present both player's game and point scores.



REGIONAL WINNER



REGIONAL WINNER

Llanfyllin High School, Llanfyllin, Powys Andrew Vaughan

Stand B 05

Ezeze Rizer

An innovative motorbike jacking system which uses levers and a hydraulic ram to ensure a strong, smooth, and steady lift which can be stopped at any height.

Nottingham High School, Nottingham James Young

Stand B 06

Electronic Weather Station

An electronic device that measures temperature, humidity, rainfall, wind speed and wind direction. It displays the information on a variety of displays on a second unit, transmitting the data by wire.



REGIONAL WINNER

Oakham School, Oakham, Leicestershire James Malin

Stand B 07

Proximity Fire Alarm

An electronic radio controlled unit which will inform fire teams whether someone is still in the building. It involves a watch transmitter, a receiving unit and an external notice board.

Stamford School, Stamford, Lincolnshire Neil Michels

Stand B 08

Rake-O-Matic

A mechanical raking device for long jump sandpits on athletics fields.



REGIONAL WINNER

Winner

Runner-up

Young Engineers for Britain & YEDA National Finalists



REGIONAL WINNER

Ponteland Community High School, Newcastle Upon Tyne Peter Hobson
Concept Land-Yacht

Stand C 09

A innovative design for a land yacht that uses revolutionary solid sail technology.

Birkdale School, Sheffield, South Yorkshire David Badger

Stand C 10

Wheeli Easi

A rig / dolly to aid the application of an HGV lorry wheel by a single mechanic on to the axle studs with ease. The rig uses a system of levers to lift the wheel to the desired height and uses rollers to enable the spinning of the wheel to correctly locate on to the studs.



REGIONAL WINNER

Merchiston Castle School, Edinburgh Jamie Loudon

Stand C 11

Bicycle Security Device

A small, compact electronic device that fits securely under a bike seat and uses a digital keypad to activate and deactivate an audible alarm.



REGIONAL WINNER

Oakham School, Oakham, Leicestershire Felicity Milten

Stand C 12

Sensory Device

A musical product to aid the education of students with autism. The instrument has been tuned to meet their specific needs, but can be altered to enable other students to use it.



Royal Grammar School, Worcester Jonathon Merotra

Stand C 13

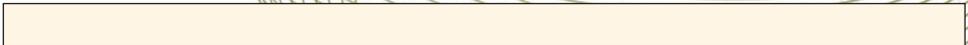
PoolKleen

An electronic prototype of a low cost robot cleaning device for a domestic swimming pool using solar cells on the unit to re-charge batteries. A programmable circuit board operates two motors that propel the unit around the pool while debris on the surface is gathered into a net.



REGIONAL WINNER

Winner



Young Engineers for Britain & YEDA National Finalists

Sheringham High School, Sheringham, Norfolk Andrew Spinks

Stand C 14

Lift And Go

A trailer which lifts a palletised load (capacity of 1 tonne) and is able to tow it away. The lifting is powered by a hydraulic hand pump and can be operated by a single user.



REGIONAL WINNER



South Craven School, Keighley, West Yorkshire Emily Cummins

Stand C 15

Sustainable Refrigeration

A new design in refrigeration using evaporation to cool the contents. The aluminium tubing is extremely aesthetic with new shape technology and is entirely recyclable.



Waingels College, Reading, Berkshire Tanya Budd

Stand C 16

Hypo Hoist

A man over board recovery system for a yacht, that recovers a casualty, conscious or unconscious out of the water and back onto the safety of the yacht, without changing their attitude.



REGIONAL WINNER

St Colmans College, Newry, Co Down Aaron Grant

Stand C 17

HGV Drum Mate

A device designed to manoeuvre HGV break drums and allow them to be fitted onto lorry axle hubs with great ease.



REGIONAL WINNER

The Queen Katherine School, Kendal, Cumbria Jacob Deane

Stand C 18

Sailing Start Controller

An electronic sailing race starter which uses an automated system based around an electronic board with a programmable PIC chip. It is currently in use at South Windermere Sailing Club.

Runner-up

Working in Industry Award

Analog Sensor Technology Ltd, Stokesley, Middlesbrough
A50 Temperature Compensation

Stephen Roe

Stand D 19

Improvement to the production process of a mainstream Project Analox 50



Smiths Aerospace ES, Cheltenham, Gloucestershire

James Coombes

Stand D 20

RGB LED Backlighting

A backlight for LCD's to be used in aircraft to replace the Cold Cathode Fluorescent tubes traditionally used in the aircraft industry. The new backlight uses tri-colour LED to mix red, green and blue light to create white light.

Queen Elizabeths Grammar School, Ashbourne, Derbyshire

Andrew Blower, Richard Buckley, Sarah Henshaw, Mary Warner

Stand D 21

Fall Arrest Device

Research, development and prototyping of a device suitable for safely lowering heavy equipment from an electricity pylon tower.



Winner

Runner-up

The Working in Industry Award is especially for students who have worked to find a solution to a problem or project provided by a company or organisation. Both the company and the student gain from this working partnership. Students from the Engineering Education Scheme and the Year in Industry programmes are eligible for this award.

Junior Engineers for Britain K'Nex Challenge

**Boroughbridge Primary School, York,
North Yorkshire**
Ben Knowles, Finlay Welsh

**Christ Church CE Primary School,
Bury, Grt Manchester**
Daniel Hicklin, Jamie Pattison

**Coulter Primary School,
Biggar, South Lanarkshire**
Ruairi Armstrong, Michael Hunter

**Milyard Primary School, Milyard,
Derbyshire**
Timothy Leadell, Patrick Ryan

**Moat Primary School, Lisnaskea,
Co Fermanagh**
Nathan Kerr, Gary Phair

**Quethiock CE VA School,
YLiskeard, Cornwall**
Dominic Burley, Jonathon Melhiush

**St Beghs Catholic Jnr School,
Whitehaven, Cumbria**
Joshua Dorricott, Zachary Gorley

**St Gregory's RC Primary School,
Stratford Upon Avon, Warwickshire**
Patrick Eves, James Sanders

**St Mary's CE Primary School,
York, North Yorkshire**
Matthew Kemp, Brandon Stace

**Stifford Clays Junior School,
Grays, Essex**
Michael Harris, Matthew Oliver

**Ysgol Cwn Y Glo, Caernarfon,
Gwynedd**
Tom Barton, Osain Davies

Winner

Runner-up

The opportunity to interest young people in technology and engineering can never start too soon and the K'Nex Challenge has provided an exciting programme. It also allows engineers, many of whom are registered Science & Engineering Ambassadors (SEAs), to take a real life engineering design task into primary schools.

Each year more and more requests are received from Primary Schools in the UK to take part. Last year over 58,000 pupils and some 1,800 schools participated. We expect to exceed these figures in 2005.

The K'Nex Challenge involves four levels of competition; School Challenge, County Challenge and Regional Final with pupils winning through to the fourth level the National Final. This years challenge has followed the theme of space exploration with pupils building Moon Buggies, Astronaut Exercise Machines, Space Shuttles and today's challenge a Space Station.

The winning school will receive £1,000 and the runner up school will receive £500.

The winning pupils will each receive £500 and the runners-up will receive £100 as well as exciting K'Nex construction kits.



Young Engineers

National Club Awards

This competition is open to all registered Young Engineers Clubs. Entrants must demonstrate how they promote the best interests of engineering both internally and externally by submitting written reports on their activities. A panel of judges then select some thirty clubs to visit, the best ten clubs are then selected to attend the national final.

Best New Club

Keswick School, Keswick, Cumbria **Club 22**

Stacey Clark
Jamie Francis
Matthew Simpson
James Walker

Projects
1) Operation Storm
2) Build A Buggy
3) Scaffold Pipe Monitoring

Saddleworth School, Oldham **Club 23**

Genevieve Godwin
Charlotte Hubbs
Paige Mawdsley
Hannah Murray

Projects
1) Operation Storm
2) Martian Clock Challenge

Young Engineers Club of the Year

Cullompton Community College, Cullompton, Devon **Club 24**

Nick Carswell
Thomas Hiscocks
Mathew Sharland
Scott Struthers

Projects
1) Hovercraft
2) Greenpower Car
3) Battle Robot

Kingston Grammar School, Kingston Upon Thames, Surrey **Club 25**

Philip Boyd
Andrew Chan
Lucy Hamlyn
Chris Socha

Projects
1) Toyota Technology Challenge
2) Greenpower Car
3) Operation Storm

Malvern Young Engineers, Worcester **Club 26**

Richard Thomas
Mark Ross
Ben Barnes
Luke Thomas

Projects
1) Bodgers Bridge
2) Build A Beat
3) Cat Trap

Peebles High School, Peebles **Club 27**

Oliver Carson
Thomas Carson
Elizabeth Hynd
Michael Rutherford

Projects
1) Football Robots
2) Faulkes Telescope Project
3) Guitar Amplifiers

Sandbach High School, Sandbach, Cheshire **Club 28**

Robert Bearmore
Chloe Cooper
Melanie Phillips
Emily Wakeford

Projects
1) Greenpower Car 1
2) Greenpower Car 2

St Swithuns School, Winchester, Hampshire **Club 29**

Kristen Charles
Helen Cole
Sarah Higginson
Tasha Osbourne

Projects
1) Radome Materials Test Unit
2) Greenpower Car
3) Robot Wars Robot

Junior Club of the Year

Byron Primary School, Gillingham, Kent **Club 30**

Kieran Crewal
Peter Earle
Katie Harris
Aarron Robertson

Projects
1) Mini Robot Wars
2) Go-Karts
3) Robotics

Caister Middle School, Great Yarmouth, Norfolk **Club 31**

Vladimir Chapman
James Dyble
Aaron Smith
Matthew Stanhope-Smith

Projects
1) Computer Control
2) Battling Robots
3) Whirligigs & Weathervanes

Young Engineers Club Awards Categories

Club Awards

Winner: Best New Club, £500

Runner-up: Best New Club, £250

Winner: Junior Club of the Year, £1,000

Runner-Up: Junior Club of the Year, £500

Winner: Young Engineers Club of the Year 2005, £2,500

The runners-up in the Young Engineers Club of the Year Category will each receive £500.

The Young Engineers Club of the Year will also attend the Lloyd's Register European Engineering Experience.

Celebration of Engineering Principal Sponsors



BAA is the owner of seven UK airports, including the world's busiest international airport, Heathrow. We also have management contracts or stakes in twelve airports outside the UK in Australia, the USA, and Italy. Sitting as they do at the heart of the world's transport network, our airports serve as Britain's gateways and every year we take responsibility for over 133 million passengers. Over the next 11 years we plan to invest over £8 billion in new and improved facilities, including the opening of a 5th Terminal at Heathrow in 2008, making BAA one of the UK's largest construction industry clients.



BT Group is one of Europe's leading providers of telecommunications services. Its principle activities include local, national and international telecommunications services, higher-value broadband and internet products and services, and IT solutions. In the UK, BT serves over 20 million business and residential customers with more than 29 million exchange lines, as well as providing network services to other licensed operators. BT has a long history of innovation and links with academia at every level. It has always recognised the importance of supporting education and demonstrates a huge commitment to it through its diverse education programmes. Through its education initiative BT hopes to encourage young people to see technology as a future career as well as realise the benefits and rewards education will bring them.



The Lloyd's Register Group is an independent risk management organisation, providing services to help clients achieve their business goals, while optimising safety and quality and preserving the environment. Our expertise and activities cover shipping, oil and gas, railways, and other land-based industries. The organisation was founded in London in 1760 to survey merchant ships and 'classify' them according to their condition, and classification is still our principal activity in the marine sector. The Lloyd's Register Group operates independently of any government or other body and is non-profit distributing. We have around 200 offices worldwide and 5,000 employees. Lloyd's Register sponsor the Young Engineers Club of the Year European Engineering Experience.



The Royal Navy is at the forefront of engineering technology through procurement, operation and maintenance of ships, submarines and aircraft as well as their highly complex command, control and communications systems. The crucial role of the Royal Navy is to contribute to a peaceful environment in which the UK's foreign policy and trade can flourish and in which the security of the UK and her Overseas Territories is assured. To carry out this role the Royal Navy is a balanced and powerful front line force capable of rapid deployment and sustained operations.

Young Engineers for Britain & YEDA

Sponsors



ARM is the industry's leading provider of 16/32-bit embedded RISC microprocessor solutions. The company licenses its high-performance, low-cost, power-efficient RISC processors, peripherals, and system-on-chip designs to leading international electronics companies. ARM provides its partners with a total technology solution comprising cores, tools, platforms, and other Intellectual Property (IP) components required in developing a complete system.



K'Nex is proud to have sponsored the Junior Engineers for Britain challenge for the past 7 years, during which time we have seen the number of children participating more than triple. We feel that K'Nex is a useful medium that helps bridge the gap between engineering theory and practice and makes education fun and hence more memorable. The feedback we have received over the years from the teachers and pupils has been very positive. The relationship we have established with Young Engineers makes this partnership more dynamic and we look forward to growing together in years to come with the joint aim of getting more and more schools to participate in this worthwhile and exciting programme.



With 130,000 members the IEE is the largest Europe-based group of professional engineers. Ranging from students just starting out to the most senior figures in industry, research and development and education they work in communications, electronics, computing, software, control, informatics, power engineering and manufacturing. It actively promotes public awareness of engineering and educational activities form a major part of this work by supporting teachers of science and technology. This includes the Faraday Lecture and 'Electronics Education', a magazine for subject teachers. It also provides scholarships, bursaries and other awards. The IEE is the sponsor of the YEB Special Award Best Project for a Disability Need.



For 35 years, Intel Corporation has developed technology enabling the computer and Internet revolution that has changed the world. Founded in 1968 to build semiconductor memory products, Intel introduced the world's first microprocessor in 1971. Intel has an active education programme that includes encouraging young people to discover the excitement of science and technology. The winners of Young Engineers for Britain 2005 will again be sponsored by Intel to attend the "World Olympics" of science fairs; The Intel International Science and Engineering Fair, which will take place in May 2006.



EBV Elektronik, an Avnet Company, was founded in 1969 and is one of the leading pan-European semiconductor specialists. EBV has maintained its successful strategy of personal commitment to customers and excellent services. 230 technical sales specialists provide a strong focus on a limited number of long-term semiconductor partners. Extensive application expertise and design know-how is offered through 100 field application specialists. EBV's logistical backbone and Europe's largest service centre, Avnet Logistics, provides access to warehouse operations, logistics solutions and value-added services. EBV operates from 50 offices in 23 countries throughout Europe as well as Israel and South Africa. It was launched in the UK in 1996 and has grown rapidly to be one of the major semiconductor distributors in the UK market with a turnover in excess of £50m and a team of over 60 customer focussed specialists.



STMicroelectronics is a global independent semiconductor company and is a leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications. An unrivalled combination of silicon and system expertise, manufacturing strength, Intellectual Property (IP) portfolio and strategic partners positions the Company at the forefront of System-on-Chip (SoC) technology and its products play a key role in enabling today's convergence trends.

Young Engineers for Britain & YEDA Supporters



Arup is an international firm of consulting engineers, providing engineering design, planning and project management services in every field related to building, civil, and industrial works. Our objective is to be the world's leading consultancy in these fields. Arup is the sponsor of the YEB Special Award Best Project for the Built Environment.



BNFL is an international business operating in 16 countries and employing around 23,000 people. We provide a range of products and services to the nuclear energy industry – from fuel manufacture, reactor services, electricity generation and spent fuel management through to the decommissioning and clean-up of redundant nuclear facilities. BNFL has an active education programme where we endeavour to support the teaching of science, engineering and technology. BNFL is the sponsor of the YEB Special Award Most Innovative Solution for a Sustainable Environment.



National Grid Transco plc is an international energy delivery business, whose principal activities are in the regulated electricity and gas industries. We are the largest investor-owned utility in the UK, where we own and operate the high-voltage electricity transmission network in England and Wales, and Britain's natural gas transportation system. We are one of the top ten electricity companies in the US, with the largest electricity transmission and distribution network in the New England/New York region, and also operate a gas distribution network in New York. Other electricity interests include interconnectors in the UK, US and Australia, and joint venture transmission networks in Argentina and Zambia. We are one of the top ten electricity companies in the US, with other electricity interests in Australia, Argentina and Zambia. National Grid Transco is the sponsor of the YEB Special Award Most Innovative Electrical Engineering Application.



New Civil Engineer is the best read business magazine in the civil engineering and construction industry. It is read by 60,000 civil engineering professionals each week, the majority being members of the influential Institution of Civil Engineers. A termly schools magazine, NCEinside, was launched in March 2001 to tell school students, their parents, teachers and career advisors about the variety of exciting careers on offer in the civil engineering and built environment profession.



Rolls-Royce plc is a global company providing power on land, sea and air. The company has established leading positions in civil aerospace, defence, marine and energy markets and operate from more than 30 countries. Rolls-Royce is the global leader in marine power systems with a broad product range and full systems integration capability. Rolls-Royce pioneered gas turbine technology for aerospace, power generation and marine propulsion and is involved in major future programmes in these fields.



In an uncertain world, the Royal Air Force stays alert to the many challenges of war and peace. The effectiveness of its aircraft, communications and defence systems is crucial, ensured by the three roles of an Engineer Officer: that of a military commander, a technical manager and a professional engineer. The Royal Air Force is the sponsor of the YEB Special Award Most Innovative Use of Technology.



The Foundation is a registered charity dedicated to the commemoration of the life and works of Sir Henry Royce. One of its most important aims is the promotion of engineering to young people and to encourage young engineers to follow Sir Henry's philosophy, 'the Pursuit of Excellence'. Some twenty awards and bursaries are made annually. The Foundation is a sponsor of Young Engineers for Britain, and offers special prizes for excellence in construction. The Sir Henry Royce Memorial Foundation is the sponsor of the YEB Special Award for Craftmanship.



Smiths Group is a global technology business with market-leading positions in aerospace systems, detection systems, medical devices, mechanical seals, and interconnect products.



Thales is an international group of companies operating in over 50 countries and employing around 65,000 people. The Group is a leading supplier of systems and solutions to three market sectors; Defence - including radar, sonar, communications, optronics and air defence; Aerospace - including aircraft simulators, air traffic control, navigation and Satcom; IT and Services - including telecommunications, e-security and transport network support. Thales has always supported initiatives that encourage school students to follow careers in engineering.

Young Engineers for Britain & YEDA

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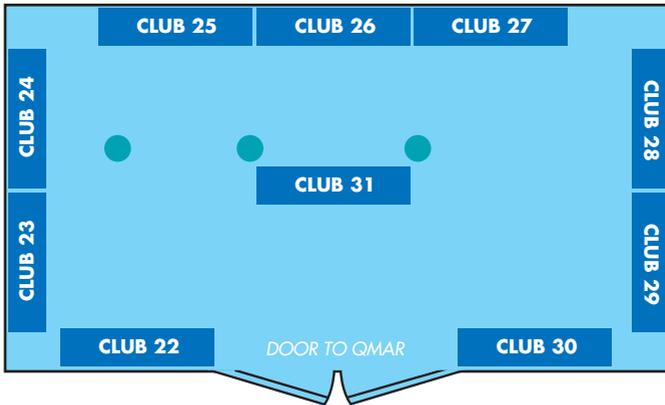
Young Engineers acknowledges the support of Urbis Lighting Ltd (sponsor of the YEB European Engineering Experience Special Award for the Project with the Most Benefit to the Community), Agilent, Autodesk, The Department for Education and Skills, The Royal Aeronautical Society, London South Bank University and The Institution of Civil Engineers.

the seed of great ideas...



...for tomorrow's world

Prince Philip Room



Queen Mary Ante Room



Young Engineers for Britain & YEDA

2005



Acknowledgments

Young Engineers, Young Engineers for Britain, YEDA and the **K'Nex Challenge** could not operate without the very generous support provided by the sponsors and prize donors mentioned in this brochure. A number have supported the programmes for many years and we are indebted to them, not only for their sponsorship but also for their support in time, advice and the supply of judges for the regional and national final. The size of the task, in ensuring the future supply of world class young engineers is immense and we are always seeking more companies to provide sponsorship support. We hope that after witnessing the enthusiasm of all the students involved with the clubs and the Young Engineers for Britain competition, you will wish to be involved with next year's Annual Celebration of Engineering.

The success of this year's events around the UK is due to the many individuals, companies and organisations involved with the local and regional finals through to today's event. The competitions and club activities could not take place without the dedication and support of the teachers from all the many hundreds of schools and colleges that took part.

Our gratitude is also extended to the organisers and hosts of the regional finals and in particular to the many Science & Engineering Ambassadors (SEAs) who supported the K'Nex Challenge.

If you would like to discuss how your company or organisation can become involved then please contact us at **www.youngeng.org** or tel **01428 727265**.



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