

# Register News

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## Welcome



I have now been CEO of the Engineering Council for a year and looking back over that period the key thing that strikes me is the tremendous amount of activity that takes place by such a relatively small permanent team. This is, of course, only possible through their commitment and that too of the small army of volunteers that deliver much of the detailed activity and routine liaison. I would like to take this opportunity to thank them on behalf of the registrant community.

As I mentioned in the last issue we are busy developing our strategic plan for 2012 – 2015. This provided the focus for discussion at our recent

annual Board of Trustees retreat and we anticipate having the final plan signed off by the Board early in December.

Jim Birch, our Head of International Recognition will be retiring at the end of this month, after 11 years of dedicated service, and I'm sure that those of you who know Jim will join us in wishing him a happy and fulfilling retirement. His successor will be announced in the next Register News.

In this issue we've included updates on some of our current activities, as well as those of our partners in the profession, which we hope you will find of interest. As always, we'd be happy for any feedback on the content of this or previous issues.

Jon Prichard CEng FICE FInstRE

CEO

## New registrant logos available



All those registered with the Engineering Council are entitled, and indeed encouraged, to use their own personal registrant logo, as a means of demonstrating their professionally qualified status. To bring these in line with current branding the existing EngTech, IEng and CEng logos have been refreshed and updated, while an ICTTech logo has also been created.

These official logos are intended primarily for use in correspondence and on business cards. It is a condition of use that they are directly associated with the name of an individual registrant and not with that of an organisation such as a company or partnership.

All logos can be downloaded from the website at: <https://ws.engc.org.uk/logoorders/>

Please note that these are the official registrant logos and different to the "I am proud to be an IEngineer" signature logo which has been created as part of the IEng promotional campaign. Incorporated Engineers wishing to also use the campaign logo, will find it at: [/professional-qualifications/incorporated-engineer/registrant-signature-logo](https://professional-qualifications/incorporated-engineer/registrant-signature-logo)



In the last issue of Register News we showed readers the IEng signature block, which was distributed to relevant members through the professional engineering institutions (PEIs). We've been very pleased with the take up of this initiative by many Incorporated Engineers. Since then we've been working on a number of other campaign activities, which are outlined below.

Information about the campaign and a number of specific IEng advertisements have now been distributed to our colleagues in the institutions, as well as other partners. These are being used in journals and on websites, as well as being printed for use on noticeboards.

Our latest HE Bulletin has been used to promote awareness among those working in HE, and to ask them, in turn, to help raise awareness among their students. New for this year, the Engineering Council has prepared an introductory email for lecturers to forward to students, providing information on the profession and registration as IEng or CEng.

Building on last year's research, an HR Managers/employers survey on professional registration, in particular IEng, has just closed and results are currently being analysed. These will be reported in due course and the feedback will be taken into account for future work with employers.

Other current activities include an online awareness campaign which is running via various channels through October and early November, mainly focussing on jobseekers. Messages will appear on jobsites, and through HTMLs and job alerts delivered directly to individuals.

We've been encouraged by feedback from several of the PEIs who have been using the promotional materials, confirming that they've already noticed a significant increase in IEng applications among their members. Although it's still too early for applications resulting from this aspect of the campaign to be processed, new registrant figures show a continuing increase in those achieving IEng status.

Apart from anything else, the campaign has opened up a number of interesting discussions and feedback surrounding IEng registration, which have in turn fuelled further ideas that will be taken forward as the campaign progresses.

Finally, and as usual, we're on the lookout for interesting case studies that can be added to our website so please contact us if you'd be willing to provide a case study. If you would like more information on any of our promotional materials, please email [marketing@engc.org.uk](mailto:marketing@engc.org.uk)

## Joining the world of social media

In order to extend our reach, and in particular to engage more with engineers in a younger age group, the Engineering Council is in the process of stepping into the world of social media. Look out for us over the next few weeks on LinkedIn, Twitter and Facebook. Our first YouTube video can already be accessed through the noticeboard on our homepage [/about-us/noticeboard](#)



## Third NECR attendance for PEIs



The attendance of the Professional Engineering Institutions has been so well received at the National Engineering & Construction Recruitment Exhibition (NECR), that they are now planning their presence on the Professional Development Hub for the third time.

At the NEC Birmingham on 25 and 26 November, students, graduates and skilled professionals can visit the Professional Development Hub to meet representatives from the Engineering Council and Institutions to obtain advice on their professional career progression, and to see how getting professionally qualified can boost their career prospects.

Jon Prichard, the Engineering Council's Chief Executive Officer says, "Working together on the Professional Development Hub we are able to help engineers and technicians at any stage of their career to develop an understanding of the importance of professional registration, both for their own career development and for the profession as a whole. Formal recognition of competence is so important to job seekers looking to differentiate themselves as they face the challenges of a highly competitive and ever-changing profession."

Institutions having confirmed their attendance so far include:

- Chartered Institution of Highways & Transportation (CIHT)
- Institute of Healthcare Engineering and Estate Management (IHEEM)
- Institute of Materials, Minerals and Mining (IoM3)
- Institution of Civil Engineers (ICE)
- Institution of Engineering Designers (IED)
- Institution of Engineering and Technology (IET)
- Institution of Gas Engineers and Managers (IGEM)
- Institution of Mechanical Engineers (IMechE)
- Society of Operations Engineers (SOE)
- Society of Environmental Engineers (SEE)
- The Welding Institute (TWI)

Other exhibitors at NECR, the largest engineering and construction recruitment event in the UK, and fast becoming an industry-wide collaboration, will be offering advice and challenging roles in virtually every sector of the industry including: automotive, mechanical, electronics, software and defence, construction, civil and structural engineering.

The full press release can be found at: [/news-list/third-necr-attendance-for-professional-engineering-institutions](#)

## Engineering Gateways programme continues to grow

The Institute of Materials, Minerals and Mining (IoM3) and the Energy Institute (EI) are the latest PEIs to support the engineering gateways programme. This brings the number of participating institutions to 14, while universities joining the scheme recently include Cardiff and the University of Glamorgan; both offering the MSc Professional Engineering.

The first BEng Professional Engineering (Power Systems) programme, leading towards IEng registration, has been successfully piloted by Aston University. The first cohort consisted of 12 students from the UK's power supply industry, who had all previously successfully completed a Foundation Degree or equivalent. This programme proved so popular that places were oversubscribed, but firm offers have now been made to 25 applicants from a wider range of employers and backgrounds to start this month.

An increasing number of employers are also realising the benefits of the work-based degree programmes. Those with employees enrolled on engineering gateways type pathways has now grown to over 50, with a wide range of size, type and geographic spread.

For further information on the flexible pathway to registration and a list of participating organisations, please visit: [/education--skills/engineering-gateways](#)

## HE STEM funding to increase availability of work-based learning

The Engineering Council has been awarded a 'practice transfer partnership' by the National HE STEM Programme as part of its workforce development plan. The partnership will enable successful engineering gateways practice to be shared, with the aim of enabling more universities to offer this type of flexible work-based degree in Professional Engineering.

The work-based degree programmes enable individuals to gain the necessary academic qualifications while developing the required competence for professional qualification as Chartered Engineer (MSc) and Incorporated Engineer (Bachelor), without needing to leave employment.

The Engineering Council's proposal for activity focused on identifying successful practice amongst those universities already offering the MSc or Bachelors in Professional Engineering, as well as finding out what other universities would find most useful to get started. Currently being finalised, the work programme is likely to involve drawing together examples of successful practice into a tool kit or delivery package. The overall aim is for the flexible work-based approach to be embedded more widely in engineering HE so that more individuals can work towards becoming registered as IEng or CEng whilst in work.

The partnership with the National HE STEM Programme will also incorporate some relevant practice from other universities: Leeds Metropolitan University's 'Knowledge Exchange Network' model for employer engagement and the University of Westminster's work-based learning maturity toolkit.

The initiative started in August 2011 and runs until June 2012 and will be led by Deborah Seddon at the Engineering Council, supported by Hal Igarashi a lead facilitator for the HE STEM programme, based at the Royal Academy of Engineering.

Further information can be obtained from Deborah Seddon at: [dseddon@engc.org.uk](mailto:dseddon@engc.org.uk)

## Engineering Council HE bulletin

For those working in HE, the EngC has just issued its third HE bulletin, with news and information specifically for you. Together with details on how to subscribe to future issues, it can be found at: [/ecukdocuments/internet/document%20library/HE%20Bulletin%20-%20Issue%203.pdf](#)

## Technician Council progression

The Engineering Council continues to work with the Technician Council, which is proposing to launch a pan-profession Technician brand in February 2012.

At the same time, the Engineering Council will be looking to engage with the Professional Engineering Institutions (PEIs) to review the current EngTech and ICTTech offerings, to determine what can be done to improve the value to Technicians. As part of this exercise the Engineering Council is holding two workshops at its office in Holborn - the first is the Technician Forum on 16 November and the second is an EngTech marketing workshop, specifically for PEI membership and marketing staff, on 23 November.

Further details on the Technician Forum are available from Ruth Wright at: [rwright@engc.org.uk](mailto:rwright@engc.org.uk) and on marketing workshops from Tammy Simmons at: [tsimmons@engc.org.uk](mailto:tsimmons@engc.org.uk)

## New Chairman for RSC

Professor Bob Cryan CEng FIET has been appointed Chairman of the Engineering Council's Registration Standards Committee (RSC) and took office in July. Professor Cryan is Vice-Chancellor of Huddersfield University and brings to RSC a wealth of Higher Education (HE) experience, including five years as Chairman of the Engineering Accreditation Board from 2006-2010. RSC is one of two executive committees of the Engineering Council Board and its main business is the setting of standards and matters related to UK-SPEC, FE, HE and pathways to registration.

## Daily Telegraph listings of newly qualified engineers

As you probably know, the Daily Telegraph has for many years issued a quarterly list of individuals having newly qualified as EngTech, IEng, CEng and ICTTech, as well as those that have been admitted to the Register of the Fédération Européenne d'Associations Nationales d'Ingénieurs (FEANI), and now entitled to use the pre-nominal EUR ING.

The Daily Telegraph is now inviting engineering companies to sponsor the listing pages. The sponsorship will provide an invaluable opportunity for employer branding and recruitment advertising within the UK's largest daily quality newspaper, which has the greatest readership of engineers.

Anyone interested in finding out more about this sponsorship opportunity should contact Nicholas Biscomb on 0207 931 3129 or email [nicholas.biscomb@telegraph.co.uk](mailto:nicholas.biscomb@telegraph.co.uk)

## Remap awards for innovation

Remap, the charity which helps people with disabilities achieve independence, held its annual awards ceremony on June 25 at the National Motorcycle Museum near Solihull. The top three prizes were won by a device to enable a woman paralysed by polio get access to her ventilator, a folding baggage carrier to help a woman who had had a stroke and lived alone carry her shopping, and an ingenious use for cricket pads, cut down and used to correct a little boy's sitting problem.

The latter, the Martin Marshall Award was presented to Gary Wooding of the Coventry & Warwickshire group, who had been asked by an occupational therapist (OT) to help her with a little boy who could not kneel without toppling over, and who tended to sit on the floor between his knees, a position which gave the OT concern over his skeletal development. Gary's clever use of fielders' pads stopped him both sitting between his knees and falling over.

Because engineers are the driving force behind many of the projects, the Engineering Council has been represented on the awards judging panel since 1997, a task willingly adopted over the past few years by Bob Simmons CEng, who says, "I always enjoy judging the Remap awards as the entries provide prime examples of how engineers can use their knowledge, skills and ingenuity to really improve the lives of the disabled - by producing a solution matched to a specific need."

Remap helps around 4000 people with disabilities every year, making special equipment where nothing is available from mainstream sources. Each project helps the person with disabilities achieve something otherwise impossible for them. Remap gives them the joy of independence, and helps them aim high in their lives.

The charity is always on the lookout for volunteers, in particular engineers and technicians, who tend to be practically-minded with a flair for simple ingenuity. If you would be interested in volunteering please visit: [www.remap.org.uk](http://www.remap.org.uk)

## FEANI Board changes



Having completed his two terms as a Member of the Executive Board of FEANI, Dr Jim Birch CEng FICME (Head of International Recognition at the Engineering Council) stood down at the recent General Assembly held in Geneva. The President of FEANI, Lars Bytoft, warmly thanked him for the contribution he had made to the organisation. During his period on the Board Jim was heavily involved in a number of important issues, notably producing the organisation's Position Paper on Ethical Conduct and in ensuring that the FEANI work on a professional card reached a sensible conclusion.

At the same meeting Jon Prichard CEng FICE FInstRE, the Engineering Council's CEO, was elected to fill the vacancy on the Board. He may serve for two terms of three years. His presence will ensure that UK views are taken into account, particularly regarding the implementation of the engineers' professional card, and in the input that FEANI will make to the revision of the Recognition of Qualifications Directive.

## Richard Shearman appointed as Bologna expert

The Engineering Council's Director of Formation and Deputy CEO, Richard Shearman, has been appointed as one of the UK Bologna Experts until the end of 2013. He joins a team of senior academics and administrators, supported by the British Council, to raise awareness of the Bologna Process among UK higher education institutions, employers and professional bodies, and to inform, advise and support them in engaging with it. Issues on which there is a particular emphasis include mobility, recognition, credit transfer, learning outcomes and employability.

For more information contact Richard Shearman at [rshearman@engc.org.uk](mailto:rshearman@engc.org.uk)

## Engineering Subject Centre Teaching Awards 2011



The presentation of the Engineering Subject Centre Teaching Awards, sponsored by the Engineering Council, took place during a Celebrating Excellence in Engineering Education event at Loughborough University. Dr Esat Alpay from Imperial College London, received the accolade of Teaching Award Winner 2011 for his work on ethics in engineering education.

Competition was very strong, with four other inspirational engineering educators selected as finalists for the award: Dr Elies Dekoninck, University of Bath with 'Boosting creativity, design and prototyping skills for engineering innovation'; Peter Green, University of Manchester with 'Microcontroller engineering themed engineering education'; Greg Rowsell, Harper Adams University with 'Professional engineering design skills development'; and John Mills, University of Southampton, 'Blended learning for foundation engineering students'.

To find out more about the awards please visit: <http://www.engsc.ac.uk/news/engineering-subject-centre-2011-teaching-award-winner-announced>

## Engineering the future of water

Engineering the Future (EtF) is hosting a series of three events looking at the issue of water security in the UK. The second event, to be held at the Institution of Mechanical Engineers on 25 October at 1.30pm, will discuss 'Water security challenges - is water transfer the answer?'

The session will look at water transfer in the context of the UK and whether it could potentially address some of the challenges of water supply. The meeting will provide a range of views on need, feasibility, carbon and environmental impact.

The Engineering Council is a member of Engineering the Future; a broad alliance of the engineering institutions and bodies, which represent the UK's 450,000 professional engineers. EtF provides independent expert advice and promotes understanding of the contribution that engineering makes to the economy, society and to the development and delivery of national policy.

Further details on the event including the event flyer can be found at: [http://www.raeng.org.uk/events/pdf/EtF\\_Water\\_Security\\_October\\_2011.pdf](http://www.raeng.org.uk/events/pdf/EtF_Water_Security_October_2011.pdf)

The booking form is available at: <http://www.raeng.org.uk/events/pdf/WaterSecurityChallengesBookingForm.pdf>

Queries and completed booking forms should be sent to: [execservices@raeng.org.uk](mailto:execservices@raeng.org.uk)

## Energy Institute appoints Joan MacNaughton as President

The Energy Institute has appointed Joan MacNaughton CB HonFEI, Senior Vice President - Power and Environment Policies, Alstom Power as its new President for 2011-2013.

Joan has been an influential figure in the energy and climate policy debate in a variety of UK, EU and international roles. As Director General of Energy at the former Department of Trade and Industry, she delivered several major changes and made a significant contribution to international energy policy, including overseeing the energy agenda during the UK Presidency of the EU and leading the work on the energy part of the climate change proposals agreed at the G8 Gleneagles Summit. Since 2007, Joan has been with Alstom Power and spearheads the company's clean power advocacy - to advance clean, sustainable energy and reduce power generation CO2 emissions.

Further information can be found at: <http://www.energyinst.org/media-relations/media-centre/141>

## IMarEST appoints new CEO

David Loosley has been appointed Chief Executive of the Institute of Marine Engineering, Science and Technology (IMarEST), and will be taking up the role on 7 November 2011. He joins the Institute from the United Kingdom Hydrographic Office (UKHO) where, as Head of Operations, he has been responsible for the operational delivery of maritime safety information to the British Government and the world-wide maritime community since his appointment in April 2007.

In addition to the UKHO, his career spans the Royal Navy and the commercial world. He has also held non-executive roles within a Primary Care Trust. This has provided him with a particularly rich mix of experience that will undoubtedly serve him well in his new role with IMarEST.

Further details can be found at: <http://www.imarest.org/Newsroom/tabid/216/ctl/ArticleView/mid/606/articleId/1454/PRESS-RELEASE-IMarEST-Appoints-New-CEO.aspx>

## New CEO for the ITP

The Institute of Telecommunications Professionals (ITP) has announced the appointment of Ann Potterton as CEO.

Ann has been involved with the Institute since 2006, successfully managing a number of key projects. She is a seasoned professional with extensive experience within membership organisations and the telecommunications industry.

"The ITP has been around for over 100 years and has a fantastic legacy" said Ann. "It's my job to make sure we get even closer to our members, whether they are new apprentices, people developing their career or established professionals. We want to better understand what they are looking for from their Institute and we'll certainly be looking for new ways to reinforce our distinctive position as the Institute of Telecommunications Professionals".

Ann will assume responsibility as CEO in December 2011.

## Is Creative Britain in Reverse?

In response to concerns about the future of Design and Technology (D&T) as a core subject in the national curriculum, the Design and Technology Association has launched a high-profile campaign to:

- develop and articulate a clear vision for D&T as it faces the challenges posed by changes to the education system
- inform and engage teachers, senior leaders, governors, parents, government, government agencies and business and industry in a professional dialogue about the role of D&T education in a 21st century curriculum.

The campaign was kicked off with a manifesto entitled: "*We Believe in Design & Technology*" *What do you believe in?*

In July of this year, at IMechE, it launched a campaign video, '*Is Creative Britain in Reverse?*' The film promotes the importance of D&T education in Britain's schools and universities, its contribution to successful business and its fundamental role in supporting the UK Economy.

The campaign has strong support from industry and commerce, well-known individuals from the world of design and engineering (including Sir James Dyson, Dame Ellen MacArthur, Kate Bellingham and Sir John Rose), pupils and students, and from educators across all sectors and phases of education, including the Royal Academy of Engineering (RAEng) and EngineeringUK. The Associate Parliamentary Design & Innovation Group is also actively involved.

The Engineering Council's CEO, Jon Prichard CEng FICE FInstRE says, "Everyone is familiar with the need for engineering students to have a grasp on subjects such as maths and physics, but the role that Design and Technology can play in their development is often underestimated. For certain disciplines such as Product Design Engineers, a grounding in D&T would be invaluable."

As well as gathering this support, the D&T campaign includes developing a bank of case studies of individuals who studied D&T and where they are now.

The manifesto can be found at: <http://www.data.org.uk/>

For further information about ways to help, and to view the video please visit: [http://www.data.org.uk/index.php?option=com\\_content&view=article&id=1153:manifesto-video&catid=282:hlt](http://www.data.org.uk/index.php?option=com_content&view=article&id=1153:manifesto-video&catid=282:hlt)

## PEIs support engineering careers project

A 'Careers Summit' will be hosted by the Institution of Mechanical Engineering on Friday 28 October 2011 in order to involve the wider engineering community in the development of the engineering careers resources programme.

EngineeringUK, The IET, IMechE and IOP are working together to develop a programme of careers resources that provide clear, consistent guidance for young people aged between 9 - 16 and their teachers. 'Call to action' resources will be designed to intrigue and encourage young people and teachers to seek out additional information about engineering. Resources will be adaptable to suit both younger and older students, cover regional variations and will promote both traditional and non-traditional routes.

The programme focuses on providing careers resources and messaging at the core of existing national STEM enhancement and enrichment activities, and supports curriculum based work. Resources will be distributed using existing networks, such as The Big Bang, Tomorrow's Engineers, the National STEM Centre, National Science and Engineering Week and STEM Ambassadors.

As part of the programme's development strategy, the team will work to extend resources and messages to new audiences via both traditional and new media, selected careers websites and the National Careers Service website to be launched in April 2012.

The messaging and approach for careers resources will be determined by a series of 'audience frameworks' already in place. These frameworks draw on relevant recent research and best practice case studies, gathered from a range of careers and professions, in order to provide clear evidence-based insight into what information young people (9-16) and their teachers are seeking, and how best the engineering professional community can meet those information needs.

Using these frameworks as a basis for development, the Engineering Careers Project Team will present detailed plans for each of its key audiences at the Careers Summit.

## Arkwright scholarships

The Arkwright Scholarships Trust is a charity that inspires future leaders in engineering and related areas of design. Arkwright does this by awarding engineering scholarships through rigorous selection to outstanding engineering-minded 15/16 year olds who are studying D&T as one of their chosen subjects. Scholarships support students through their sixth form studies and, increasingly, through their undergraduate studies.

Scholarships consist of a financial award to support the purchase of books and equipment, and a range of events to enhance scholars' experience and understanding of engineering and leadership. Arkwright operates across Britain and since 1991 has awarded over 2350 scholarships, growing year on year. This year the charity will award 298 scholarships.

The scheme works - which is proven through case studies showing the outstanding exam results and excellent careers that scholars have achieved over the twenty years of Arkwright's existence. These can be found at: <http://www.arkwright.org.uk/welcome/cs.htm>. Arkwright's track record means that it is one of the most prestigious scholarship schemes in Britain.



The charity's new National Director, Dr Martin Thomas CEng MIMMM FIET says: "This is an exciting time for Arkwright. We are poised to enhance what we do across the country. But to do this we need the support of individual engineers. Our scholars would benefit enormously from mentoring provided by professional engineers. Arkwright also relies on donations and sponsorship and the personal support of engineers can make a significant difference to the lives of these outstanding young people, who could be future engineering leaders if supported at this critical stage of their education".

Supporting a scholar is the ideal way to put something back into engineering education at a personal level. Mentoring, company visits, work experience, donations (large and small) are all welcome, or you might like to think about leaving a legacy in your will to invest in a future young engineer's career. Please see [www.arkwright.org.uk/donate.htm](http://www.arkwright.org.uk/donate.htm). You can chat to Arkwright without commitment on 01926 333210 or [enquiries@arkwright.org.uk](mailto:enquiries@arkwright.org.uk)

## UK Fuel Efficiency Forum

The Institute of Road Transport Engineers (IRTE), a professional sector of the Society of Operations Engineers (SOE) is hosting the UK Fuel Efficiency Forum on 19 October from 9.30am – 4pm at Millbrook Proving Ground in Bedford.

The UK Fuel Efficiency Forum has been designed to offer invaluable market intelligence and the opportunity to network with key industry leaders who will highlight future trends and developments to improve fuel efficiency.

Discussion topics include:

- Influencing factors on fuel consumption
- Low rolling resistance and its effect on fuel consumption
- Impact of transmission architecture and operation on fuel efficiency
- Tailoring transmissions to duty cycle
- The new Bridgestone Ecopia Environmental tyre and its fuel efficiency advantages
- Bridgestone's Total Fleet Management package
- Engine selection and impact on fuel efficiency

The forum will end with a 'Ride 'n' Drive' afternoon where delegates will have the chance to access Millbrook's premier test facility and drive a range of large commercial vehicles from refuse trucks to buses and dumper trucks.

For further details and costs, or to book online please visit <http://www.soe.org.uk/events/irte-events/item/uk-fuel-efficiency-forum/>, contact Emma Thompson on [emma.thompson@soe.org.uk](mailto:emma.thompson@soe.org.uk) or call 020 7630 2174.

The forum is sponsored by Allison Transmission, Bridgestone, IRTE and Millbrook.

## IStructE guidance to reduce carbon footprint

The Institution of Structural Engineers (IStructE) has produced new guidance to help engineers reduce the carbon footprint of the projects they design.

The short guide to embodied carbon in building structures provides the essential guidance to enable engineers to contribute to reducing both embodied carbon and energy footprint.

Climate change is one of the greatest challenges facing the world today. Since the signing of the Kyoto Protocol in 1997, the UK has committed to drastically reducing carbon emissions, having a profound effect on industry. The guidance responds to a global industry concern on how structural engineering can contribute to the challenge of climate change and the UK's commitment to reduce carbon emissions.

Institution President Professor Roger Plank will also provide a talk on the subject at the Birmingham NEC – The Infrastructure Show on 17 October.

For further information on the guidance and talk please visit: <http://www.istructe.org/news/Pages/structural-engineers-to-reduce-carbon-footprint-using-new-guidance.aspx>

## Science Council report reveals the shape of the UK science workforce

New research undertaken for the Science Council shows that science has become increasingly important across all sectors of the UK economy and society. 5.8 million people are currently employed in science-based roles, a figure projected to increase to 7.1 million by 2030.

The research provides much more information than available previously, including greater depth of data on the size, shape, distribution and qualifications of the UK science workforce today as well as giving some projections of future changes.

For the first time the complexities of today's economy are taken into account in the research by looking at the workforce in its entirety, thus enabling an understanding of the true size and scope of the science workforce across the whole economy, rather than limiting the research to considering only those working in a narrow band of so-called science sectors.

The results serve to emphasise the interconnectedness and cross-disciplinarity of science in today's economy and highlight the proliferation of secondary science workers, people who are dependent on science knowledge and skills as part of their role and who will not previously have been identified as part of the science workforce. Significant numbers of scientists were found in employment sectors as diverse as health and social care, education, food and farming, communications, finance, retail and public sector services.

The full report can be downloaded from the Science Council website at: <http://www.sciencecouncil.org/content/science-workforce>

## Gold and bronze medals at WorldSkills 2011



A young plumbing professional has beaten off competition from around the world to land one of the industry's top international awards. Shane Trevitt EngTech MCIPHE RP RHP (pictured left) has been awarded the Gold Medal for Plumbing at WorldSkills London 2011 - an international organisation that promotes vocational training.

At the same event, after an exciting and challenging competition involving welders from 31 countries, TWI student member Jake Rambaldini (pictured below) of Doosan Power Systems was awarded a Bronze Medal for his exceptional performance.

Lesley Challis, Membership Secretary of the Chartered Institute of Plumbing and Heating Engineering (CIPHE), was delighted that Shane's hard work had been recognised by the judging panel, saying, "It is vital for the industry that we continue to get an influx of talented young people like Shane. The standards expected in the sector today are higher than they

ever have been making top quality training even more important. Shane is a real credit to his chosen profession and this Institute, and we look forward to supporting his continuing professional development throughout what we are sure will be a very successful career."

EUR ING Chris Eady, Associate Director for Professional Affairs at The Welding Institute (TWI) and Chairman of the SkillWeld Committee said: "Jake's journey from ECITB apprenticeship, through SkillWeld 2010 finalist and Gold Medal Winner, to WorldSkills London 2011 Bronze Medal has been exceptional. He is a highly talented and knowledgeable welder. It is no surprise, but no less exciting, that Jake has achieved this level of performance. Throughout his competition experience, Jake has earned the admiration and friendship of trainers, sponsors and fellow competitors alike, he is an inspiration to our industry."

TWI was also present at the O2 event, delivering its Welding with Chocolate experiment to thousands of visitors in the WorldSkills Have a Go Zone. In addition, following a welding apprenticeship awareness day on 18 October 2011, TWI is launching a Welding Apprenticeship Group Training Association to enable more manufacturing and fabrication SMEs to engage in welding apprenticeships.

WorldSkills is a not for profit membership association open to agencies or bodies which have a responsibility for promoting vocational education and training in their respective countries. This year's event was held in London and people from 51 different countries took part in the competition. It was the largest event of its kind to date and attracted thousands of visitors. The official WorldSkills London 2011 competition results can be found at: <http://worldskillsteamuk.org/results>

For further information on CIPHE please visit: [www.ciphe.org.uk](http://www.ciphe.org.uk)

For further information on TWI please visit: [www.twiprofessional.com](http://www.twiprofessional.com)



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