

EngTech registration rises for fourth year

THE number of individuals registering with the Engineering Council UK (ECUK) as Engineering Technicians (EngTech) during 2008 has risen for the fourth consecutive year.

The new influx of registrants brings the total number of current EngTech registrants to 13,711, an increase of 1,343 since the beginning of the year. And more than half of this intake for 2008 was from three institutions: SOE, InstRE and CIPHE.

For the third year running, SOE (the Society of Operations Engineers) was responsible for the registration of a large percentage of EngTechs. Chief executive Nick Jones believes that this achievement is due to the society's commitment to

developing apprentices into competent and skilled engineers.

He said: "SOE prides itself on nourishing the careers of engineering professionals. From the workshop to the boardroom, SOE members' achievement in attaining EngTech and IEng status is a tribute to their professionalism.

"We firmly believe that apprentices and technicians are crucial to the success of the engineering profession. By supporting this vital element within engineering, SOE is promoting a future that can rise to the many challenges we face as an industry."

Engineering Technician registration has advantages not only for those who gain

the title but also for their employers. It provides proof of an individual's knowledge, understanding and competence, as well as demonstrating his or her commitment to professional standards and personal development.

For registrants it represents official recognition of their talents and hard work, and brings benefits such as new career opportunities and improved prospects for promotion.

The upward trend in female EngTech registration also continues, with a steady increase showing over the past four years. In addition, for the second year in a row over 11% of new Chartered Engineers are women, a figure that has risen from 9.2% in 2004.



Jackson: Into the ETB

ETB appoints Jackson as chief exec

THE Engineering and Technology Board (ETB) has announced the appointment of Paul Jackson CEng, FIET as chief executive with effect from 5 January.

Sir Anthony Cleaver, chairman of the ETB, welcomed Jackson's appointment: "I am delighted that Paul is taking up the post of chief executive. Paul brings with him a breadth of experience, spanning technology-based businesses, engineering institutions and the media, from which the ETB will benefit.

"The Board of Trustees and I look forward to working with Paul to build on John Morton's success in working with our partners across the engineering community to promote the vital role of engineers, engineering and technology in our society."

Paul Jackson commented: "I am excited by the opportunity to build on the success of the UK's engineering and technology community as leader of the ETB team.

"The credit crunch has really sharpened the focus on the need to build foundations for future economic success. Engineering and technology will underpin that success, from innovation in manufacturing to information technology in banking. We will be keeping the public in touch with that contribution and encouraging young people to take part in their future careers."

Education groups merge

THE Professional Engineering Institution's Engineering Education Alliance and the Royal Academy of Engineering's Shape the Future group – which had a good degree of membership overlap – have merged and been reborn as Education for Engineering.

Education for Engineering is now to be structured as two groups – an Operational Group and a Policy Group. The former will do most of the day to day work, making recommendations to the Policy Group.

It is planned to have a full-time Head of Secretariat so that Education for Engineering can achieve a high profile voice on education matters on behalf of the engineering community – much as ACME and SCORE have for maths and science.



Showing his interest: The Prince visits a solar panels factory in Wales

Prince of Wales becomes honorary fellow of society

THE Society for the Environment (SocEnv) has announced that His Royal Highness the Prince of Wales has accepted an Honorary Fellowship of the Society.

The Society recognises the Prince of Wales as an outstanding ambassador for environmental matters across the many disciplines represented by SocEnv's membership, from ecology and resource management to engineering and the built environment.

Through initiatives such as

Accounting for Sustainability, the Prince's Foundation for the Built Environment and the Prince's Rainforests Project, the Prince of Wales has demonstrated a tireless commitment to issues of sustainability, and has promoted innovative, practical solutions to some of our most pressing global challenges.

Tim Boldero, chair of the Society for the Environment, said: "To welcome His Royal Highness into the Fellowship of the Society is an honour in itself."

Network aims to bring best practice to the fore

BESTPRODUCT-TENEEST stands for "Best Product Through an European Network on Environmental Engineering Sciences and Technology". The project has received the Eureka label E!3517 and is an individual project under the Factory umbrella.

The network is aiming at a durable integration of environmental engineering experts in a European Network on Environmental Engineering Sciences and Technology or Eneest. This network is mainly focused on the stimulation or creation of communication channels, co-operation opportunities and joint research activities.

Across Europe environmental engineering experts are working hard in numerous research and test centres to simulate in an appropriate manner various environmental influences such as vibration, shock, EMC, climate testing, etc.

The scatter of knowledge and intellectual energy is such that overall effective-

ness could be highly improved by better communication. Indeed, a remarkable amount of individual knowledge of experts has been built up in the past and huge amounts of money invested in test facilities which are unavailable because of a lack of information.

Bestproduct-Teneest was conceived in response to a need to merge in a network the knowledge of highly qualified specialists and the technical capabilities within Europe. The first initiatives are to: setup of an electronic European skills directory for product testing; and exchange of R&D proposals and ideas in the field of environmental engineering.

The electronic directory was initiated last year and permits interested individuals and companies to register. The site can be found at www.eneest.eu. If you want to actively participate in the Bestproduct-Teneest project or wish to be involved in the European Network on Environmental Engineering

Sciences and Technology, you can express your interest by the registration process.

A number of projects have been initiated in recent months under the umbrella of the Bestproduct-Teneest. In addition a number of others are in the process of looking for participants. Registration on www.eneest.eu is intended to assist that process. The current projects are set out below. The website contains more information on each project including contact details if you want to participate.

Current projects under consideration include:

- creation of an artificial climate in closed environments;
- utilising the full potential of new, high performance, corrosion protection coatings in the car industry;
- VPET: virtual and physical environmental testing;
- simulation of ageing and corrosion; and
- assessment and optimisation of material for diesel engine applications.



Walker: Master of the web

Society honours webmaster

OVER the past few years Chris Walker has designed and maintained the SEE website. Recently he has taken on responsibility for the CEEES website which he is currently re-designing. During this whole period Chris has meticulously upgraded and modified the site as new items have come along and others needed to be deleted.

Chris works as a Principal Engineer at BAE Systems (Integrated System Technologies) at Portsmouth.

For this enormous contribution to the management of the Society Council has unanimously agreed that Chris Walker should be awarded Honorary Life Membership.

Fashion statement

AS part of our 50th Anniversary celebrations for next year, we have ordered a new stock of silk ties for the Society as in the photograph here.



The price is £15 inclusive of postage and packing and orders should be sent to the SEE Secretariat www.environmental.org.uk

Wanted: interviewers for CEng and IEng

EC(UK) registered members with professional review interview experience are invited to join the Society's pool of interviewers for CEng and IEng. This will involve helping to conduct one or two interviews per year at Buntingford or London.

Registrant members who do not have interview experience are also welcome and can undergo "on the job" training.

Please contact the SEE Secretariat for further information: The Society of Environmental Engineers, The Manor House, High Street, Buntingford, Herts., SG9 9AB. Tel: 01763 271209, Fax: 01763 273255 email: office@environmental.org.uk <http://www.environmental.org.uk>

Arms for the members

THE SEE Coat of Arms is available as a wooden shield (6" x 5") with a full colour metal



etching of the Society's arms. It is available for individuals as well as industry affiliates. At the top of the shield a second scroll indicates class of membership. The price is £34.99 including p&p. Please order from the SEE Secretariat with your choice of top inscription.

Latest standards in the field of environmental testing

By David Richards
Hon.FSEE, CEng, CEnv
Lockheed Martin UK INSYS Ltd

ENVIRONMENTAL CONDITIONS

BS 5228: Code of practice for the control of noise and vibration on construction and open sites.

- 1 Noise
- 2 Vibration

ENVIRONMENTAL TESTING

BS EN 60068-2: Environmental testing. Tests

-31 Test Ec Rough handling shock.

-64 Test Fh Vibration, broadband random and guidance.

BS EN 62429: Reliability growth. Stress testing for early failures in unique complex systems.

ACOUSTICS

BS EN ISO 10846-2: Acoustic and vibration. Laboratory measurement of vibro-acoustic transfer properties of resilient materials. Direct method for the determination of the dynamic stiffness of resilient supports for translator motion.

ISO 16940: Glass in building. Glazing and airborne sound insulation. Measurement of the mechanical impedance of laminated glass.

CONTAMINATION

BS EN ISO 17491: Protective clothing. Test methods for clothing providing protection against chemicals.

- 3 Determination of

resistance to penetration by a jet of liquid (Jet test)

-4 Determination of resistance to penetration by a spray of liquid (Spray test)

BS EN 60079-27: Explosive atmospheres. Fieldbus intrinsically safe concept (FISCO)

CORROSION

BS EN 11782: Corrosion of metals and alloys. Corrosion fatigue testing.

- 1: Cycles to failure testing.
- 2: Rack propagation testing using precracked specimens.

CLIMATIC

BS EN 15251: Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics.

SHOCK AND VIBRATION

BS EN ISO 13753: Mechanical vibration and shock. Hand-arm vibration. Method for measuring the mechanical transmissibility of resilient materials when loaded by the hand-arm system.

BS ISO 18437-4: Mechanical vibration and shock. Characterisation of the dynamic mechanical properties of visco-elastic materials. Dynamic stiffness method.

BS ISO 20283-2: Mechanical vibration. Measurement of vibration on ships. Measurements of structural vibrations.

ELECTRO-MAGNETIC

BS EN 61000-1-2: Electromagnetic compatibility. General. Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to the electromagnetic phenomenon.

BS EN 61000-4-2: Electromagnetic compatibility. Testing and measurement techniques. Electrostatic discharge, immunity test.

IEC 62236: Railway applications. Electromagnetic compatibility.

-1 General
-2 Emissions of the whole railway system to the outside world.

-3 Rolling Stock
-4 Emission and immunity of the signalling and telecommunication systems.
-5 Emission and immunity of power supply systems and apparatus.

PACKAGING

BS EN 13094: Tanks for the transportation of dangerous goods. Metallic tanks with a working pressure not exceeding 0.5 bar. Design and construction.

BS EN 14025: Tanks for the transportation of dangerous goods. Metallic pressure. Design and construction.

EN 15507: Packaging. Transportation packages for dangerous goods.

Comparative material testing of polythene grades.

EN 15552: Packaging. Complete, filled transport packages and unit loads.

Performance testing schedules for common distribution chains.

MISCELLANEOUS

BS EN ISO 6946: Building components and building elements. Thermal resistance and thermal transmittance. Calculation methods.

BS EN 15188: Determination of the spontaneous ignition behaviour of dust accumulation.

CONTACT INFORMATION

Enquiries on BS, EN, ISO and IEC standards can be made at info@bsi-global.com or by fax 020 8996 7001. Enquires on Def Stans, UK departmental standards and specifications as well as some Stanags can be made at enquires@dstan.mod.uk or by fax 0141 224 2503.

Enquires on STANAGS can be made at www.nato.org. Many STANAGS have Allied Publications which may have to be requested individually.

Society for the Environment registrations

We are pleased to announce that a good number of applications are being received via the Grandparent Route. Since we started operating our licence on 1 January 2009 the following have gained the title of Chartered Environmentalist: Mr. David Richards, CEng,

CEnv, Hon.FSEE
Mr. Stephen Burnage, CEng, CEnv, MSEE
Professor Mervyn de Calcina-Goff, CEnv, FSEE
Mr. Graham Couser, CEng, CEnv, MSEE
The above are also SocEnv assessors.
Mr. David John Barrell,

CEng, CEnv, MSEE
Mr. John David Lapinskas, CEnv, MSEE
Mr. Kwai Wah, Hans MAK, CEnv, MSEE
Mr. Matthew Bennett, CEng, CEnv, MSEE
Mr. Ho Yin LI, CEnv, MSEE
Mrs. Joyce Heather Fletcher, CEnv, MSEE

Mr. Arshad Anwar, CEnv, MSEE
Dr. Paul Emeka Eke, CEnv, MSEE
Mr. Hector Kin Yan Wong, CEnv, MSEE
Mr. Fu-Lam, Onnal HO, CEnv, MSEE
Mr. Andrew David Seeney, CEnv, MSEE

New members

HONORARY MEMBER

Dr. John Robinson,
Nottingham University
(Hawley Award Winner 2008)

CORPORATE MEMBERS

Mr. Bideha Mani Upadhyay,
Mott MacDonald, Norwich
Mr. Ho Yim LI, China
Overseas Building, Hong
Kong
Dr. Shu Wun Todd NG, Fong
Wing Shing Construction,
Hong Kong
Mr. Alexander Humber, AWE,
Aldermaston, Berks
Mr. David Po Chiu Chan,
BMS Ltd., Hong Kong
Mr. Yui Mun Yuen, Hong
Kong
Mr. Chin Ko Chung, Hong
Kong
Mr. Wa Leung Law, Apex
Engineering & Consultants,
Hong Kong
Mr. Kwong Chiu Wong, Hong
Kong
Mr. Yuen On Wong, Million
Hope Industries Ltd., Hong
Kong
Dr. Tim Earthrowl, Socitel UK
Ltd., Bristol
Mr. Shui-Ming Andy IP, Kin
Fat Construction, Hong Kong
Mr. Yin Ming NG, Tak Fai
Engineering, Hong Kong
Mr. Daniel Ritsema, British
Waterways, Milton Keynes
Mr. Mak Kwai Wah Hans,
Hsin Chong Engineering,
Macau
Mr. Bo Fat Wong, Hsin
Chong Engineering, Macau
Mr. Leung Chak HO,
Kumagai Gumi Co. Ltd.,
Hong Kong
Mr. Kevin Scott Brown,
Lockheed Martin UK INSYS
Ltd.
Mr. Christopher I.K. Chiang,
Hsin Chong Engineering,
Macau
Mr. Eric Y.K. Cheng, Venetian
Cotai, Macau
Mr. Monorom Pho, ONUCI,
Ivory Coast
Mr. Keith Whiteman,
Babcock Marine, Plymouth
Mr. Kim Lung Chow, Hong
Kong
Mr. John David Lapinskas,
Sonangol

Exploration/Production,
Luanda, Angola
Dr. Keith Lloyd Jones,
Complyworld UK
Mr. Chi Ming Cheung, Hong
Kong
Mr. David John Barrell,
Colchester, Essex
Mr. Wai Yin Chan, Kai Shing
Management Services,
Hong Kong
Mr. Andrew David Seeney,
Pell Frischmann, Herts
Mr. Michael Lap Wo MUI,
Venetian Cotai, Macau
Dr. Paul Emeka Eke,
Scottish Centre for Carton
Storage, Edinburgh
Mr. Ming Cheong Luk, Hong
Kong
Mr. Ping On Chu, Edwin Lai
& Co. Ltd., Hong Kong

MEMBERS

Miss. Kathleen Mary
Gregory, Northern Ireland
Mr. James Duffy, EDI,
Huston, Texas, USA
Dr. Colin A. Booth, University
of Wolverhampton

JOINT MEMBERS

(With Safety & Reliability
Society (SaRS) and Institute of
Corrosion (ICorr)
Mrs. Debra Kay Emery, BAE
Systems Submarine
Solutions, Cumbria (SaRS)
Mr. Steven Paul Dobson,
Severity Ltd., Somerset
(SaRS)
Mr. Kai Tung George Lam,
Atkins China Ltd., Hong
Kong (SaRS)
Mr. Andrew David Painting,
Fleet Support Ltd.,
Portsmouth (SaRS)
Mr. Kwong Ming Wong,
ERM Ltd., Hong Kong
(SaRS)
Mr. Puvan
Balasubramaniam,
RiskSynergy Ltd., Aberdeen
(SaRS)
Dr. Ali Morshed, Production
Services Network,
Aberdeen (ICorr)

STUDENT

Mr. G. Mohan, Sri Krishna
College of Engineering &
Technology, India

Become a Chartered Environmentalist through the Society of Environmental Engineers Grandparent Route

VISIT THE SEE WEBSITE FOR THE APPLICATION FORM
www.environmental.org.uk OR CONTACT THE SEE SECRETARIAT

WHY BECOME A CHARTERED ENVIRONMENTALIST?

Chartered Environmentalists embrace a wide range of disciplines and the qualification is an excellent way of recognising virtuosity in environmental management and sustainability. The designation benefits all concerned with the environment in the following ways:

The public, who can be confident in the knowledge and competence of an environmental practitioner.

Practitioners by identification as a professionally qualified environmentalist that puts them at the forefront of their profession.

Employers, with confirmation of the professional ability and competence of employees and applicants.

Governments and governmental bodies seeking to appoint advisers or consultants will be assured about an individual's competence.

Professional Bodies, who will be able to benchmark the qualification for membership purposes.

Higher Education, in setting and monitoring benchmarks for environmental courses,

and promoting study programmes.

Regulatory Bodies, who could be confident in specifying the CEnv designation in Acts of Parliament and regulations.

Legal credibility, enabling expert witness participation at a defined standard

Professional standing, recognising equality of excellence across a wide range of environment disciplines.

Registration sets Chartered Environmentalists apart from those who are unregistered. It establishes their proven knowledge, understanding and competence. In particular, registration demonstrates a commitment to professional standards and enhancing competence. Chartered status gives a proven edge to candidates applying for posts, whether or not this is part of the job specification.

Employers of Chartered Environmentalists have the assurance of knowing their employees have had their competence assessed and their commitment to continuing professional development established to consistent and rigorous standards.

Recent ECUK registrants

We are pleased to announce that the following candidates have completed their registration process and have been duly nominated to the ECUK register as Chartered Engineers.

Mr. Puvaneswaran Balasubramaniam, CEng (SaRS)
Mr. Daniel Ritsema, CEng