

UPDATE



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www.esp-scotland.ac.uk
info@esp-scotland.ac.uk

IET The Institution of Engineering and Technology



On 23 August, college hosts of IET **FIRST® LEGO® League** and IET **FIRST® LEGO® League Junior** attended the Scottish launch of the 2019-20 programme and participated in a train the trainer event held at ESP Offices in Stirling.

On the day ESP's educational partner IET updated on the changes to the programme and the new season's challenge. There was also an opportunity to provide feedback on last year's challenge and share best practice from tournaments. Upcoming hosts received their tournament host packs and details around champion teams selection to the Scottish final which will be held in Perth on 29 February 2020.



SUBS in Schools

UNITED KINGDOM



On 13 June ESP hosted the UK launch of the SUBS in Schools STEM programme which is being introduced into 14 secondary schools in Scotland by EIM with the Royal Navy as lead supporter.

SUBS in Schools is a new STEM learning programme which invites school teams to compete for the SUBS in Schools

Scottish Champions title, with the students work judged by a panel of industry experts.

Alongside the practical work of building the ROV, students need to document their work, prepare a presentation and share their engineering knowledge with the judging panel.

This cross-curricular initiative is designed to inspire passion for STEM and marine engineering, highlighting career relevance and encouraging students to consider a STEM related career pathway.

WIND & MARINE training network

ESP has secured £270K of funding in place from Scottish Government to expand this network from three colleges to seven with the aim of building capacity and capability for offshore wind developments in the north and east coast of Scotland. A Wind and Maritime Expansion Event with the aim of demonstrating and highlighting sector development including future curriculum was held on 26th Sept in Dundee for all seven colleges to share and demonstrate their best practice in delivering the programme.



On 24 July at Dynamic Earth SP Energy Networks held the Green Economy Fund Awards event. The event was used to celebrate and reveal the innovative projects that have been approved in round 2 of the Green Economy Fund and to give stakeholders and projects from both round 1 and 2 the opportunity to network. ESP were successful in securing £500,000 for a project which will develop an Energy Efficient Training Network to provide specialised training in renewable and energy efficiency for students and industry.

From this funding ESP are also pleased to announce the appointment of Juliet Harkin as Project Support Manager - Construction. Juliet will be involved in the project development and progress and support the College Construction sector through ESP.



2019 Future of Building Congress



ESP, colleges and industry represented Scotland at the Future of Building 2019 Congress – Exhibition, Vienna on the 4th – 5th June 2019. The Future of Building event provided an overview of future trends which will prevail in our sector, demonstrations and good practices of automisation in construction, cutting-edge technologies, materialisation, process optimisation, digital building with over 600 participants from more than 50 countries involved.

The group also attended Aspern, Seestadt Smart City, still currently under construction, which aims to become an innovation leader in affordable housing, smart mobility and energy and social inclusion with completion due around 2030.

energy saving trust



Scottish Government
 Riaghaltas na h-Alba
gov.scot

Energy Efficiency Scotland

ESP is working closely with Scottish Government (SG), Energy Savings Trust and Sector Skills Bodies shaping the future skills needs for the delivery of SG's Energy Efficient Scotland programme over the next 20 years. This programme is aimed at making Scotland's existing buildings near zero carbon wherever feasible by 2050 and will launch early 2020.

MARINE AND MARITIME TRAINING NETWORK

Academic Year 18/19 saw meetings at Inverness and Dunstaffnage, Oban with the development of a marine and maritime brochure for industry and stakeholders. The priorities for Academic Year 19/20 will be the development of curriculum materials in NPA Maritime Studies and PDA Hydrogen. This training network will also support priorities occurring from the Wind and Marine Training Network. Future meetings will take place through a combination of face to face and Skype for business meetings.



ESP Annual Report 2018-19

The 2018-19 ESP Annual Report will be available shortly and highlights the impact and successes made over the last year through working with colleges and Energy, Engineering, Construction and STEM industry bodies.

A.C. WHYTE & CO. LTD.



The first cohort of students who participated in the AC Whyte Skills Academy recently graduated from their 12 month course and have now secured full-time permanent employment with AC Whyte & Co. LTD. The Skills Academy was developed by ESP and West College Scotland to enable students to learn and master skills to become fully qualified external wall insulation installers.

ESP INTERACTIVE MAP

The 2nd phase of the interactive resource map for Scotlands Colleges & Universities is now live. Colleges are being asked to supply a short video of Construction and Engineering department facilities along with images of specialist equipment. Please send content to cherry.lameg@esp-scotland.ac.uk

ALEX BEGG

WEAVERS OF LUXURY ACCESSORIES SINCE 1866

On Wednesday 5 June, representatives from Ayrshire College, Fife College, ESP & SDS visited Alex Begg, luxury textile manufacturers. Alex Begg combines traditional and advanced manufacturing techniques including the use of digital twinning of historic machines still in use today. Alex Begg has a number of apprentices including several business critical loom tuners who are undertaking engineering apprenticeships.



ESP is delighted to host Martin McGuire, WorldSkills UK's Scottish Director. Both ESP and WorldSkills UK see a real synergy in both organisation collocating and working collaboratively across the college sector.

Martin can be contacted at mmcguire@worldskillsuk.org



On 19 June ESP and college staff visited OMRON Electronics Ltd. in Milton Keynes to undertake a tour of their facilities. The tour was very beneficial for colleges and covered aspects involved in advanced manufacture, 4.0 and associated technologies and industries.



ESP WEBSITE

The ESP website has recently undergone a redesign and can be found at <https://esp-scotland.ac.uk/>. Teaching Materials can now be provided directly to members by contacting info@esp-scotland.ac.uk. Brochures for Teaching Materials, STEM Equipment and Shared Resources are also available to view and download from the site.



ESP were approached by SG and asked to engage with the Offshore Wind Sector Deal which was launched March 2019.

As a result Scottish Government established the Scottish Offshore Wind Energy Council (SOWEC). ESP were asked to take on the role of Skills Lead and to establish a Skills Group which has agreed a number of priorities including:

1. Understanding Skills Demand
2. Skills Supply Capacity and Capability
3. Sector Recruitment and Attractiveness
4. Diversity in the Workforce
5. Supporting and influencing the UK agenda



ESP and college staff attended a factory tour of CCG's Off-Site Manufacturing facility on 24 June.

CCG (Scotland) Ltd is an industry leader for innovation in construction and is one of the largest privately owned construction and manufacturing companies in Scotland. CCG Off-Site Manufacturing (OSM) is a leading manufacturer of structural timber systems. An update on progress and developments in the offsite manufacture sector was also provided along with the tour.

AUTOMOTIVE TRAINING NETWORK

2018-19 saw a range of activity aimed at positioning the colleges to offer commercial Electric Vehicle Training to their local independent garages. 33 staff undertook CPD upskilling Level 2 & 3 Electric/Hybrid Vehicle Maintenance, Repair and Replacement. Colleges delivered a number of awareness events to local garages. 8 High Voltages training units were purchased with Cloud based learning as a shared resource for the network. All of this was funded by Transport Scotland. For 2019/20 ESP is preparing a funding bid to undertake more CPD and awareness events along with the purchase of electric plug-in vehicles for training.



ESP and CITB have now established a high level joint working group to develop a strategic skills framework that will focus on:

1. Modern Apprenticeships
2. Careers
3. Research
4. Future Skills
5. CITB Funding Investment

Membership includes ESP's Construction Practitioners Group members, CITB, Scottish Government and Colleges Scotland.

EVENTS AND CONFERENCES

1, 2, 3 & 8 October 2019	Step Into STEM 1st New College Lanarkshire, Cumbernauld 2nd New College Lanarkshire, Motherwell 3rd New College Lanarkshire, Coatbridge 8th South Lanarkshire College, East Kilbride
2 October 2019, Aberdeen	SHFCA Annual Conference 2019
9 October 2019 10 October 2019	CITB Training Provider Event, Cumbernauld CITB Training Provider Event, Inverness
4 - 5 November 2019, MTC Coventry	Digitalising Manufacturing 2019
13-14 November 2019, Liverpool	Smart Factory EXPO
20 February 2020, Perth	IET FIRST® LEGO® League: Scottish Final

Jim Brown
Director
Tel: 07557 563516 or
jim.brown@esp-scotland.ac.uk

Juliet Harkin
Project Support Manager - Construction
Tel: 0797 0334443 or
juliet.harkin@esp-scotland.ac.uk

Roddy Scott
Sector Manager — Engineering
Tel: 01786 892028 or
roddy.scott@esp-scotland.ac.uk

Sarah Melville
Project Officer
Tel: 01786 892028 or
sarah.melville@esp-scotland.ac.uk

John Renwick
Sector Manager — Construction
Tel: 07921 057158 or
john.renwick@esp-scotland.ac.uk

Alex Sinclair
Administration & Communications Assistant
Tel: 01786 892029 or
alex.sinclair@esp-scotland.ac.uk

Wendy Findlay
Project Support Manager - STEM
Tel: 07812 664954 or
wendy.findlay@esp-scotland.ac.uk

Cherry Lameg
Administration Assistant
Tel: 01786 892031 or
c.lameg@esp-scotland.ac.uk

Rachel Tulloch
Project Support Manager - Engineering
Tel: 07812 664912 or
rachel.tulloch@esp-scotland.ac.uk

