



Parliamentary Reception 2017

College Showcases

Smart Control Technology and Gender Equality in Engineering and Construction



City of Glasgow College delivers Smart Meter training in both power and gas for network providers and their contractors. Their showcase will demonstrate how the new **smart meter technology** will help reduce consumption of personal energy. The college will also display the control system technology that has been incorporated in the training by the college's own designed electronic systems. Their showcase is centered around what they teach their learners both in the classroom and in workshops to prepare them for employment or further education.

The college has been working with a range of partners to promote **gender equality in the construction and engineering sectors**. This includes the 'Women into ...' provisions which have been well received by industry partners and resulted in a significant increase in enrolments, work placements and public awareness of the gender imbalance in each sector. Their showcase introduces the wide range of activities in relation to infrastructure, influencing the influencers, raising awareness and aspirations, encouraging applications, supporting success and employer engagement that the college has engaged in over the last 24 months.

Chair: Alisdair Barron MBE **Principal:** Paul Little **Website:** www.cityofglasgowcollege.ac.uk

Employability Skills for Young People who Require Additional Support



Dumfries and Galloway College will showcase examples of where they work closely with a variety of partners to support young people with a diverse range of additional needs. Training is delivered in a variety of different ways but has a vocational focus that aims to build self-esteem, confidence and transferable skills that supports the learner to move into employment or into further education. It also provides the learner with relevant vocational and employability certification.

Projects include *The Usual Place*, a non-profit social enterprise café that provides employment and training opportunities for young people with additional needs, as well as *Project Search* and *Princes Trust*.

Regional Chair: Brian Johnstone **Principal:** Carol Turnbull **Website:** www.dumgal.ac.uk



Photography and Broadcast Media

Edinburgh College will showcase examples of learning undertaken by its broadcast media students. This will include live streaming of sporting events including working with the Scottish Rugby Union.

College students will also be providing the official photography for the Parliamentary Reception.

Regional Chair: Ian McKay **Principal:** Annette Bruton **Website:** www.edinburghcollege.ac.uk



Speedy Science, Technology, Engineering and Maths (STEM)

Fife College's '*Speedy STEM*' course is a 'back door' learning experience where students learn through play and are not consciously aware that they are actually learning. An emphasis on a learning experience that is predominately 'hands on', fun, interesting and linked to industry is at the centre of '*Speedy STEM*'. The course allows students to learn all about STEM through doing and experimentation.

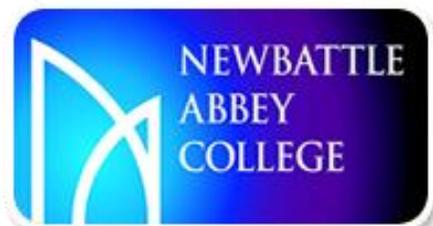
Regional Chair: Stephen Magee **Principal:** Hugh Logan **Website:** www.fife.ac.uk



Design Project using Autodesk Revit

Forth Valley College's students studying for the Higher National Diploma in Computer Aided Architectural Design & Technology are applying innovative solutions to produce 3D design concepts using Autodesk Revit software. High quality digital graphics are produced as part of course work which outline detailed elevations of a wide range of projects. The detailed work is developed from sketched concepts and in accordance with a clients brief. Planning of the project also gives consideration to the materials and construction methods for the structure and further developed to produce a Building Information Model (BIM). The design must be logically laid-out, space-efficient, energy efficient, and user-friendly and comply with current Building (Scotland) Regulations.

Regional Chair: Hugh Hall **Principal:** Dr Ken Thomson **Website:** www.forthvalley.ac.uk



Colaiste Abaid a' Bhatail Nuaidh

Scottish STEM Partnership – Inspiring the Future Workforce

A showcase of STEM challenges supported by the **Scottish STEM Partnership** (Energy Skills Partnership, Education Scotland, Skills Development Scotland and Scottish Schools Education Research Centre) and delivered through college 'STEM Hubs'.

This showcase will demonstrate some of the activities undertaken in year 1 with prize winning schools present. Partners and school pupils will be on hand to discuss their individual experiences of the **Bloodhound Rocket Car competition** and **Tomorrow's Engineers Robotics Challenge**.

Director: Jim Brown **Website:** www.esp-scotland.ac.uk

Removing Barriers to Full-Time Further Education

New College Lanarkshire's Faculty of Supported Learning has been working in conjunction with North Lanarkshire Council's Health and Care Partnership to promote access to further education for individuals who were receiving support from addictions and/or mental health teams. Students participated on a part-time course carrying out a range of subjects that could be easily transferred to their daily lives. This included healthy eating, cookery, food hygiene, budgeting and IT. All classes are on a practical basis to promote participation. This has resulted in three students gaining qualifications and two moving into full-time further education.

Regional Chair: Dr Linda McTavish CBE **Principal:** Martin McGuire **Website:** www.nclanarkshire.ac.uk

Promoting Access for Learners of All Ages

Newbattle Abbey College is committed to extending access to learning to adults and to young people at points of transition. The college does this through their *Access to HE* and HNC courses, vocational *Rural Skills* programme and innovative work with P7 pupils. Their recent national initiative is the *Adult Achievement Awards* programme. These awards offer national accreditation to adults for their learning in the community, at home, in work, in college and through volunteering. Their pilot partners include colleges, voluntary organisations, local authorities, community learning and development and prisons.

Regional Chair: Brian Lister OBE **Principal:** Ann Southwood **Website:** www.newbattleabbeycollege.ac.uk



Hospitality

Hospitality students from Perth College UHI will be serving canapés during the Parliamentary Reception. These students are currently studying a Professional Hospitality Award or an HNC in Hospitality Management.

Regional Chair: Grant Myles **Principal:** Margaret Munckton **Website:** www.perth.uhi.ac.uk

Precision Farming – Achieved Through Advanced Technology

SRUC will showcase examples of where precision technologies are revolutionising agriculture, and producers are using them more and more to reduce input cost, lower environmental impact, improve yields and increase efficiencies. The ability to utilise technology to guide machinery to within 2.5cm on each pass has improved operator performance and comfort. The simulator on display allows the user to steer machinery without technological support and view the comparison results with precision guidance. It is projected the world population will reach 9.1 billion people in 2050. This will require raising overall food production by some 70 percent. Precision farming, utilising technology, can assist in this quest.

Chair: Patrick Machray **Principal:** Professor Wayne Powell **Website:** www.sruc.ac.uk

Opening Doors and Crossing Borders

“West Lothian College has developed a comprehensive programme of opportunities designed to enable learners and staff to participate in a range of learning projects within Europe and beyond. These projects are all designed to advance equality within the college whilst raising aspirations and broadening horizons.”
Education Scotland, March 2016.

West Lothian College will showcase some of their exciting initiatives recognised by Education Scotland. These include activity targets widening access to those with fewer opportunities by providing overseas learning and work experiences, developing partnerships with overseas partners and building capacity for staff through international exchanges, training and research opportunities.

Regional Chair: Alex Linkston **Principal:** Mhairi Harrington OBE **Website:** www.west-lothian.ac.uk



Embedding Energy Storage and Smart Controls in the Energy and Engineering Curriculum and IKEA Partnership 'Hybrid'

West College Scotland will illustrate how they are making effective use of **energy storage system and smart heating controls** to help develop important technical skills in full-time, part-time and employed status students. College students will demonstrate their practical skills in this innovative emerging technologies and staff will be on hand to discuss how they have integrated new innovation in technology into their curriculum to allow students across Scotland keep up to date.

The college is proud of the successful **partnership with global retail company IKEA**, which has grown from strength to strength over the years. Their latest venture is a multi-disciplinary project which draws on the skills of their students studying interior architecture, graphic design, illustration, media and photography across all our three campuses and three regions in the West, responding to a brief set by IKEA.

The end products are wide-ranging from:

- Hand drawn or digital representation of a fictional character
- Ceramic art
- Digital board demonstrating design
- Laser cutter perforate lampshades
- Button badges, tea towels with graphics
- Cushions and tote bags
- Large scale photography pieces
- Website information
- College publications
- Blogs to a final piece project Facebook page.

The scale of this cross-curriculum, cross campus regional college brief is ambitious and saw students operating and working together in a new manner.

Chair: Keith McKellar **Principal:** Audrey Cumberford **Website:** www.westcollegescotland.ac.uk