Scottish Engineering

Annual Awards

2020

Connecting Scottish Industry

scoteng.org.uk
@scotengineering
#ScotEngAwards2020

Let's concentrate on the good news stories that are happening across Scottish industry, and the examples of excellence you are going to hear about and celebrate over this afternoon.

Rodney Ayre, President, Scottish Engineering

Welcome to your 2020 Annual Awards

A warm welcome to everyone who will tune in to watch the 2020 Scottish Engineering Annual Awards

Our awards are taking a very different format this year, instead of celebrating with a glass of fizz, you can watch them from the comfort of your home or office with a cup of tea! We have spent the last few months hoping that we would be marking this event as we usually do with an evening of celebration and entertainment, but a global pandemic put a stop to that, and so, like the BAFTAs, we have had to innovate and present a virtual awards ceremony.

This time last year no one could have foreseen what lay ahead in 2020 with COVID-19 and the economic uncertainty that would ensue. Let's not dwell on that today, instead let's concentrate on the good news stories that are happening across Scottish industry, and the examples of excellence you are going to hear about and celebrate over this afternoon.

We hope you enjoy the event!
Rodney Ayre, President, Scottish Engineering

Scottish Engineering

Incorporation of Hammermen Award

Souvik Sanyal – Aggreko

In his role as development engineer, Souvik led the technical development of Aggreko's new product, the 1.6MW Quadpack generator. Souvik was also responsible for all mechanical aspects of the Quadpack design, along with supporting and overseeing the work of another 7 engineering teams within the company. The Quadpack has provided Aggreko the opportunity for IP generation as the first company in the mobile power generation market mobile to have such a power dense unit with all ancillaries packed into one container. This has led to the opening of a large market to create business growth. Souvik has a 1st Class Honours MEng Aerospace Engineering at the University of Surrey, Guildford, United Kingdom.

James Cowan – ATL Turbines

Taking the lead in this project, James' challenge focussed on driving delivery and turnaround time for a specific product line for one of ATL's major clients. Through managing and understanding customer requirements and improving the process and layout of the production area, James and his team's efforts have resulted in the final 12 recuperators of 2019 being delivered to the client ahead of their desired delivery schedule, and ATL has beaten the required delivery date for the first set of 12 in 2020. The results of the project have been an outstanding success for ATL. It has added significantly to the customer perception of their company, improved the turnaround time of the existing product and has directly led to securing additional long-term business.

Incorporation of Hammermen Award

Ryan Mckeown – Doosan Babcock

In his role as the Automated NDT Site Lead for Doosan Babcock Dry Fuel Store Multi-Purpose Canister LTS Weld Inspection Campaign, Ryan was responsible for supervising and supporting a team of 10 operators. Ryan's role was to lead the Automated Ultrasonic inspection on several Fuel Storage Canister LTS welds at a newly developed Dry Storage Facility for one of their major nuclear customers. The inherent learning developed thanks to Ryan and his team has driven technological progression and has improved Doosan Babcock's competitiveness & profile in nuclear operations while supporting access to further nuclear markets. Going forward, Ryan will also be involved in an upcoming inspection campaign which has a multi-million pound total projected commercial value for Doosan Babcock.

Derek McLean – Forth Ports Limited

Derek recently took the lead engineering role in Forth Port's straddle carrier upgrade project. Straddle carriers are machines used within the port's container terminal to pick up, transport and stack shipping containers. The £3.5 million investment of five new Kalmar 4 High, 40t (ESC440) Straddle Carriers is the 3rd phase of the port's modernisation strategy to future proof the container terminal. The modernisation of the port's straddle carriers aimed to allow for an increase of 50% capacity in the container terminal, improving land utilisation. These new carriers also feature a diesel-electric drive technology which contributes to improving Forth Port's overall environmental impact. Derek's lead engineering role in the project helped successfully plan, oversee and deliver key new operational assets to the port, further securing the company's position as Scotland's largest container terminal.

Incorporation of Hammermen Award

Craig Jones - Hayward Tyler Fluid Handling Ltd

Craig's project centered around the need to supply replacement valve components for one of Hayward Tyler's most valuable customers. In his role in this project as a graduate engineer, Craig was tasked with creating the CAD models, part detail drawings and General Arrangement drawings required to support the manufacture of the 8-off replacement Remote Maintenance Valve internal assemblies for the customer. In this leading role, Craig was accountable for the CAD models and drawings being accurate and consistent. Through Craig's attention to detail and his team's efforts, the success of this project will allow Hayward Tyler Fluid Handling Ltd to continue meeting the needs of one of their major customers, and ensure that their name remains well known and respected in the nuclear industry for many years to come.

Donald Lawson – Howden Compressors

Donald has been leading The Howden Select Software project for several years, with the aim to bring their engineering knowledge closer to their customers through an innovative software platform. This new software has enabled the team to explore creating a digital twin, gather market intelligence to develop new future products and boost company revenue. Launched at the beginning of 2020, the Howden Select platform has quickly grown to over 200 external customers, with 10-20 new projects per week being registered by customers which provides a key route for Howden's sales engineers to grow the business. Enquiries generated through this new software are expected to contribute heavily to Howden's target to grow bookings of bareshaft compressors by £10M over the next three years.

HAYWARD TYLER

Howden

Incorporation of Hammermen Award

Daniel Monaghan – TechnipFMC

Over the past 14 months, Daniel has taken on the role of leading the Subsea Production System (SPS) alignment between TechnipFMC and one of their strategic global customers. In his role, Daniel has been responsible for aligning TechnipFMC's vendor led solution of Subsea 2.0TM with this specific customer's general specifications; primarily for Subsea Trees, Tubing Hangers, Permanent Guide Bases and all associated sub-system equipment. Part of Daniel's project will also see him provide technical guidance to the development of a new TechnipFMC Subsea Tree design, as a named technical advisor. Through this project, Daniel has significantly enhanced collaboration, understanding and agreement between the SPS departments of both companies, provided a new solution for customers and significantly enhanced TechnipFMC's competitiveness within the energy market.

Colin Scouller – Thales UK

In his role as project leader within the mechanical team at Thales Glasgow, Colin was responsible for overseeing Thales UK's recent digital transformation project. Colin's idea was sparked through the current challenges engineering companies are facing due to an ageing work force and a skills gap developing between experienced engineers and the new generation of engineers entering the industry. Through a transformation to Model Based Definition, Colin and his team created a more efficient process, eliminating interpretation issues and other human errors by providing digital data that can be read by both man and machine. The success of this project thanks to Colin and his team have seen Thales UK elected as the Thales Global pilot for global MBD roll-out, with the belief that Model Based Definition is the first step in unlocking the benefits of the digital thread for Thales.

TechnipFMC

THALES

Scottish Engineering

Incorporation of Hammermen Award

Ashleigh Barron – Thales UK

As the technical lead for her project, Ashleigh was responsible for overseeing the testing, design and development of Thales UK's new Non-Eye Safe Laser Product Line. The project centres on the reuse of the laser design across the full product line of rangefinders, designators and marker. The reuse of the laser design saves money in not only the procurement costs of parts but in the time to develop new products. Ashleigh led the laser design through the rangefinder development and productionisation to ensure the first fully qualified product in the product line is able to operate in some of the harshest environments in the world. These products are designed, built and tested in one of the company's cleanrooms in Glasgow. The rangefinder project contributed to Thales' competitiveness by providing a new product in a market where the previous product was obsolete, helping the company to continue meeting the complex needs of our country's civil and defence markets..

THALES

Scottish Engineering

Award Nominees 2020

AGR Automation Ltd

AGR Automation Ltd are a global leader in the design and manufacture of high speed, precision automation and special purpose machinery and are at the cutting edge of robotics and materials handling and assembly. Not only are they focused on continuously improving AGR products with ongoing product development processes in place, they invest in the improvement and development of their staff and apprentices. They also take pride in their strong relationships with schools and universities, offering summer work placements, work experience for local high schools and graduate apprenticeships, all with the aim of securing the talent pipeline.

ATL Turbine Services

ATL Turbine Services is a one-stop-shop gas turbine component repair business. The company repairs components for both aero and light industrial turbines and has been doing this from its base in Dundee for over 30 years. 2019 saw ATL export sales increase dramatically over the previous year, with this result seeing them rank number 20 in the Sunday Times Fast Track top 100 SME exporters in Britain. In 2015/16, exports accounted for just 2% of turnover and a short three years later, exports are >30% of turnover, representing impressive export growth. ATL's belief is that their people are the face, body and soul of the company and have invested and developed in their internal excellence programmes, with the aim to maintain the excellence that has been the core of ATL's growth to date.

Award Nominees 2020

Catalent Ltd

Catalent is the leading global provider of advanced delivery technologies, development, and manufacturing solutions for drugs, biologics, cell and gene therapies, and consumer health products. Primarily involved in the production, packaging, storage and global distribution of patient kits for clinical trials, the 141,000 sq ft Bathgate facility currently has a workforce of 235, a headcount that has grown significantly over the last few years. Customers of Catalent's Bathgate site include large, global pharmaceutical organisations, as well as smaller Scottish companies that make up one of Europe's largest life science clusters.

CB Technology Ltd

Founded in 1999, CB Technology have grown to become the largest independent EMS business in Scotland. Initially focused on the design and manufacture of specialist probe cards for the semiconductor industry, they have now diversified their client base to cover the oil and gas industry, communications, industrial and medical sectors. By boosting their workforce and investing in equipment, they have welcomed a double-digit growth in the last 5 years and have unveiled plans to increase turnover to £25 million by 2025. As a key supplier to UK companies, operating two critical sectors – infrastructure and medical - CB Technology has played a vital role in the country's response to Coronavirus. Going forward they have identified a number of important areas where they can support the UK's economic recovery.

Scottish Engineering

Award Nominees 2020

Distell International Ltd

Distell International Ltd manufactures and distributes premium spirits brands in the UK and across international markets and are on a long-term journey to grow their portfolio of premium brands. They have been investing 'ahead' in Scotch inventory for the past 7 years, during which time the value of their maturing Whisky stocks have increased from £60 million to £100 million. They have a key commitment to smart capital investment, and during 2019 committed approximately £15 million in capital investment across their manufacturing sites to improve efficiency and build capacity. Commercial structures have been reorganised to ensure appropriate focus was given to key markets, and they have committed to investing in their people through upskilling where appropriate and recruitment of new talent.

Howden Compressors Ltd

Howden Compressors, part of Howden Group, is a leading worldwide technology and engineering group that designs and delivers solutions and services that optimise customer's air and has handling processes across the petrochemical, oil & gas, refrigeration, power and waste water treatment sectors. Through significant investment made to their Renfrew facility, a continuous improvement program embedded throughout the business and by embracing the digital transformation of traditional engineering processes, Howden Compressors are on track to remain an industry leader in engineering and manufacturing. Not only committed to improving the companies own growth, they are passionate about attracting, developing and retaining talent to support future growth in engineering, and do this through their Apprenticeship programme, school outreach initiatives and Women in Engineering events.

Scottish Engineering

Award Nominees 2020

John Bean Technologies Ltd

JBT are Global leaders in the Food technology industry. In October 2016, JBT invested $5million in their Livingston Facility, acquiring their current site in Kirkton Campus, with the vision to grow and develop into a world class Manufacturing Facility. JBT believe that at the heart of their business is their people and this has been embedded in their daily operation. External support through local Universities and Colleges helps enhance the skills and knowledge of their workforce through degrees, SCQF qualifications and one day courses. JBT also have a strong Apprenticeship programme to provide apprentices with the platform to learn and grow within a live working environment.

Mersen Scotland Holytown Ltd

Mersen Scotland Holytown is part of Mersen SA and produce advanced carbon fibre materials at their Motherwell facility to serve their global customer base. They are the second largest carbon insulation manufacturer in the world, with the aim of becoming the largest in the coming years. With aims to grow their Holytown operational capacity, the site has benefited from a multi-million-pound three-year Capital Investment Plan, allowing the team to grow new product ranges to serve the world's appetite for a greener and more energy efficient planet. They have also partnered with the University of Strathclyde through a KTP to maintain and continue to push forward their technical leadership. Mersen are actively developing the skills and aspirations of its staff, through apprenticeships, higher education and training as well as careful succession planning enabling the business to grow and develop its talent from within.

Scottish Engineering

Award Nominees 2020

ScottishPower Renewables

ScottishPower Renewables is part of the ScottishPower group of companies operating in the UK under the Iberdrola Group, one of the world's largest integrated utility companies and a world leader in wind energy. ScottishPower Renewables is at the forefront of the development of the renewables industry through pioneering ideas, forward thinking and outstanding innovation. Its ambitious growth plans include expansion of its existing onshore wind portfolio, investment in new large-scale solar deployment and innovative grid storage systems including batteries. The company is also delivering the Iberdrola Group's offshore windfarms in the Southern North Sea off East Anglia. With over 40 operational windfarms, ScottishPower Renewables manages all its sites through its world leading Control Centre at Whitelee Windfarm, near Glasgow.

Superglass Insulation Ltd

Superglass manufactures glass mineral wool insulation for the Construction market. The company has undergone a significant transformation. It has completed a £32m investment plan to build a new state-of-the-art plant and was the first company to be awarded a Sustainable Growth Agreement by the Scottish Environmental Protection Agency (SEPA) in 2018. Superglass insulation is made from up to 84% recycled glass and, once installed, can save up to 300 times the energy used to manufacture it. In addition to saving energy and lowering household bills, it can improve a home's acoustic performance. The company is part of TN International, a global leader in construction materials that specialises in optimising the envelopes of buildings and improving the living and working environments of the people inside. Its Western European and North American headquarters are based at the Superglass site in Stirling.