Grieve

MOURNS THE LOSS OF PAT CALABRESE

The entire family of The Grieve Corporation mourns the loss of its longtime President, **P.J. "Pat" Calabrese,** who died on February 17, 2018 in Lake Forest, Illinois at the age of 90. Pat was the president of Grieve, a world leader in industrial ovens and furnaces, from 1958 until his retirement in 2008. He worked closely with the company's founder, Price Grieve. Pat's son Frank is currently the vice president of sales and marketing, while Price's son Doug is the president and CEO of the company, founded by Grieve in 1949.

Pat was born in Chicago, graduated in 1949 from the University of Illinois with a BS in Mechanical Engineering and was awarded that school's prestigious Distinguished Alumni Award in 2001. He also held a number of positions with various industrial, business and Catholic charitable organizations.

Pat began his career at Grieve in 1958 as National Sales Manager, becoming President in 1968 and finally Chairman in 2006, following the death of Mr. Grieve. During his tenure as President, the company grew steadily to become a global supplier of heat processing equipment for virtually every industry in every industrialized country in the world. (*www.grievecorp.com*)

Klingelnberg

WINS TWO IF DESIGN AWARDS

The Höfler Speed Viper cylindrical gear generating grinding machine and the Klingelnberg P 65 precision measuring center are the first machines in which Klingelnberg has implemented and launched its newly developed design concept. Both were honored at this year's iF Design Award with a distinction in the "Product" category.

The iF Design Award is given out once a year by the world's oldest independent design institution, iF International Forum Design GmbH in Hanover/Germany. The competition attracted a large number of entries again this year, with 6,400 submissions from 54 countries vying for the internationally acclaimed seal of quality. It wasn't an easy choice for the 63-member jury of experts, who recognized not one, but two, of the machines submitted by Klingelnberg with an award in the "Product" category. Martin Boelter, chief operating officer at Klingelnberg, accepted the Design Award for the Speed Viper cylindrical gear generating grinding machine and the precision measuring center on Mar. 9, 2018, during the iF design award night at BMW Welt in Munich/Germany. "We are extremely pleased that our new design language has received such immediate confirmation!" exclaimed Boelter at the awards ceremony, which was attended by some 2,000 guests from 36 countries.

The Speed Viper cylindrical gear generating grinding machine and the P 65 precision measuring center were designed in line with Klingelnberg's new brand and design principle: "The new precision is black." The machine builder launched the design project in February 2016, as the design concept for the new Speed Viper 300 was evolving. Working together with product design specialist, The Kaikai Company, Klingelnberg developed a new look that will extend to the company's product portfolio. The P 65 precision measuring center was designed from the ground up based on these new standards, which feature a longlife color concept focused on dark gray hues. The color scheme ensures that machines used directly on the shop floor are less prone to showing dirt. Klingelnberg's signature blue color comes into play as an eye-catcher in selected design elements, which are coordinated with every product group and product; together, these elements form a central, unifying moment that promotes a consistent brand image. The machine's haptic interfaces were a major consideration in the ergonomically optimized design, since this is where the user "gets a feel" for the machine's quality in the truest sense of the word.

This overall concept, which can be applied to the entire machine lineup, immediately received accolades in its first practical implementation in the Speed Viper and the P 65. More information on the Speed Viper cylindrical gear generating grinding machine and the P 65 precision measuring center can be found under "Design Excellence" in the iF World Design Guide. (*www.klingelnberg.com*)

Amarillo Gear Company

CELEBRATES 100 YEARS OF INNOVATION

Amarillo Gear Company, located in Amarillo, Texas is celebrating 100 years of innovation. Amarillo Gear is one of the largest manufacturers of top-quality right-angle spiral bevel gear drives in the world. Originally founded to produce gear drives for the agricultural industry, the company has expanded over the years to make gears for fire protection, marine, power generation, petrochemical and HVAC industries. The following is an excerpt from the company's news page on Industry in 2018:

Manufacturing is a cut and dry industry. The premium placed on production times and automation only help to affirm

the impersonal nature. But the paradox that's easy to miss is that purpose of manufacturing is to meet the needs of a community.

Amarillo started out in a railroad town sprawled out on a windswept plateau and an infinite horizon. It was a place where the quality of life depended on how well you worked with members of community and how stubborn you could be. These are traits of resilience and reliance. In the panhandle those traits are valued and upheld to a high degree because they mean survival. Understanding the meaning of the traits most valued by a community is critical to any manufacturing company's bottom line.

Initially, the Amarillo Gear Company production was central to the farming. The company's emphasis was on manufacturing the machines and parts that used by farmers in growing their crops. Water sources were flung far and few in-between and mandated the use of irrigation systems in cultivation. This created a niche in the market, which Amarillo Gear quickly filled.

The company knew the farmers by name, the models they purchased and what tools to take out for service calls. Eventually, they built the right-angle drives that allowed for an expansion of the crops that fed and sustained the growing city population. The food they put on the plates of their neighbors was also the food they put on their own plates. They were totally invested in the success of their drives because it benefited the organization directly as a local company.

This is something that more consumers need to see. To manufacture, there must be a need and to have needs is to be human. By promoting a desire to help raise the quality of life by creating the products that allow for it, Amarillo unveils the humanity within machinery.

It's the key to how a company can survive the changes brought by the years. Technology changes at the speed of light, so do regulations and trade agreements and the free market is an eternal gamble. But the importance of knowing what the purpose of a manufacturer is and fulfilling that purpose is where a company can grow. (*www.amarillogear.com*)

Heat Exchange Institute

LAUNCHES ONLINE WEBSTORE FOR SALE OF STANDARDS

The Heat Exchange Institute (HEI) announced the launch of an online webstore, powered by Techstreet, for the sale of all HEI standards. HEI tech sheets are also available on the webstore for download at no charge. As a trade association committed to the technical advancement, promotion, and understanding of a broad range of utility and industrial-scale heat exchange and vacuum apparatus, HEI's online publication store allows users from across the globe to immediately access all HEI standards in a secure and convenient manner. The Institute is pleased to offer two new discount bundle packs with a number of relevant standards included in each bundle.

Coinciding with the release of the 12th edition of *Standards for Steam Surface Condensers,* the new webstore will provide secure PDF downloads, the opportunity to purchase hard copies of standards, and a smooth user experience to ensure customers have access to the latest from the Heat Exchange Institute.

Heat Exchange Institute secretary/treasurer Craig Addington noted, "Through our partnership with Techstreet, we expect our members and customers to more quickly and seamlessly access these standards which are used throughout the world for the design, manufacture, and operation of heat exchange and vacuum equipment."

(*www.techstreet.com/hei*)

Holroyd Precision Apprentice

RECEIVES ADVANCED ENGINEERING AWARD

Rochdale-based Holroyd Precision Rotors had cause to celebrate when one of its apprentices secured a top honor at Rochdale Training's 48th Annual Awards Evening.

Holroyd's Joe Butler, 20, from Milnrow, was presented with Rochdale Training's coveted Advanced Engineering Apprentice of the Year (Level 3) award at the event, which took place at Rochdale Town Hall on Jan. 25, 2018.

Butler, who began his apprenticeship with Holroyd in 2013, also received a certificate to mark his successful completion of an Advanced Modern Apprenticeship in Mechanical Manufacturing Engineering. Other Holroyd apprentices to be recognized for their achievements included: Matthew Lockyer (who also completed a HNC course), David Wall, Matthew Humphries and business administration apprentice, Jordan Gray. All have now commenced full time employment with either Holroyd Precision or Holroyd Precision Rotors.

Holroyd's Joe Butler, 20, from Milnrow, was presented this year with Rochdale Training's coveted Advanced Engineering Apprentice of the Year (Level 3).

Apprentices from a number of organizations attended the event, as did local employers; the MP for Rochdale, Tony Lloyd; the Mayor of Rochdale, Councillor Ian Duckworth, and Mayoress Christine Duckworth. The guest speaker was David Bottomley, director of Rochdale AFC.

Rochdale Training Chief Executive, Jill Nagy, said: "Well done to our learners for your hard work. We are proud of your achievements and congratulations to you all. Thank you to the parents, carers and families for your support of the learners. But most of all I'd like to thank the employers - our customers - thank you for using us, as without you, we don't exist. It is much appreciated."

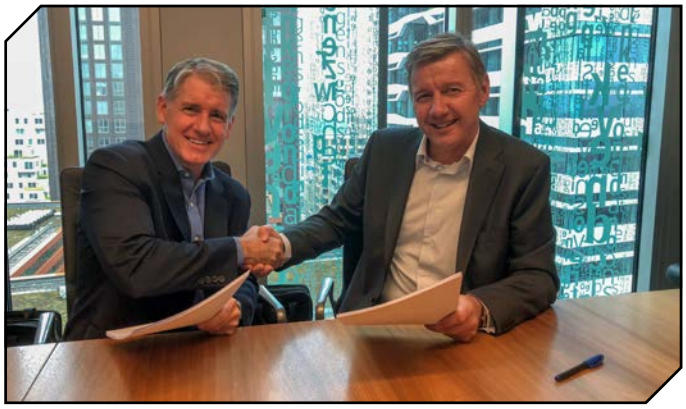
"I am delighted to congratulate Joe and our other apprentices on their achievements," commented Holroyd Precision's HR Manager, Mary Mcgrath. "They have all worked extremely hard. For almost 30 years, we have invested in recruiting and training young people as part of our apprenticeship and graduate training programs. With expert support from Rochdale Training, we are seeing our young apprentices mature and, in many cases, take on senior roles within our organization." (*www.holroyd.com*)

Des-Case Corporation

ACQUIRES RMF SYSTEMS

Des-Case Corporation, a provider of desiccant breathers and manufacturer of specialty products that improve process equipment reliability and extend lubricant life for companies around the world, today recently announced its acquisition of RMF Systems, an experienced specialist in desiccant breathers, filtration systems, analysis and monitoring solutions to maintain hydraulic oil and lubricant cleanliness. With the addition of RMF, Des-Case will provide a broader range of solutions, greater customer convenience, and deeper professional expertise.

Des-Case holds a leading position in the North American breather market and also provides world-class filtration and transfer systems of all shapes and sizes, while RMF is a major player in the European filtration market with particular focus on hydraulic solutions. Together, Des-Case and RMF will help companies make their equipment investments last longer through an extensive combined product line that will provide solutions of breadth and depth for any contamination problem. (*decase.com*)



Frank Robben, CEO of Doedijns Group International (right) and Brian Gleason, CEO of Des-Case (left) moments after the acquisition was official.

Team Penske

FORMS TECHNICAL PARTNERSHIP WITH SIEMENS

Team Penske and Siemens, a leading global provider of product lifecycle management (PLM) software and services, have entered into a new technical partnership. Under the multi-year agreement, Siemens will help enhance Team Penske's performance with full access to a wide variety of software products to enable advanced digital design and simulations. Team Penske race teams will utilize Siemens' software across their computer-aided design (CAD), engineering, simulation and machining platforms. Utilizing this software, Team Penske can create a digital twin of their race cars, which can help engineers simulate engine configurations, innovate new parts and predict race results in real-time.

"Team Penske is excited to welcome Siemens as a key technical partner, beginning with the 2018 season," said Roger Penske. "Siemens is a company and a brand that is known worldwide for its superior technology and engineering. Our teams will benefit from Siemens' expertise and support and we look forward to helping grow the Siemens footprint in the world of motorsports."

Team Penske is partnering with Siemens PLM Software to adopt an integrated virtual environment for digital modeling and simulation. Siemens' PLM tools allow Team Penske to keep large amounts of data well organized and accessible for review by anyone within the team, and also enables engineers to quickly iterate through design concepts with the digital twin to arrive at near-optimum solutions within a high-intensity, short timeframe environment. The digital twin is the key to making effective, data-driven design changes at a very rapid pace, and

thus, helping improve the results at the racetrack every week.

"We are proud to team up with Team Penske, an American icon in motorsports. As a racing team with extremely challenging requirements on development time and accuracy, Team Penske will be able to fully leverage the unique capabilities of our software solutions," said Lisa Davis, Managing Board member of Siemens and CEO of Siemens USA. "Our integrated industry solutions, combined with the expertise of the entire design and racing team from Team Penske, will help create world-class vehicles."

Utilizing Siemens' PLM tools allows Team Penske to quickly analyze thousands of electronic data streams full of critical on-track performance information, and apply changes to the race car's digital twin. These changes are then reviewed for performance and durability in a virtual environment, which allows low-cost, high fidelity simulation of the results. With Siemens' technology, Team Penske is able to capitalize on this streamlined digital process and quickly transition to the physical stages of manufacturing, quality assurance, installation onto the race car, and validate performance in the physical environment. This entire process can be completed with high-impact components in as little as a few hours.

"We are excited to partner with Team Penske and be a part of their strong legacy of championship racing," said Tony Hemmelgarn, president and CEO, Siemens PLM Software. "We look forward to supporting Team Penske with our software to help streamline designs, speed results, and deliver the most successful racing teams yet."

The partnership will also include Siemens as an associate sponsor on the Team Penske cars competing in the Monster Energy NASCAR Cup Series, the NASCAR XFINITY Series, the Verizon IndyCar Series and the Virgin Australia Supercars Championship. Siemens branding will be featured on all Team Penske Indy cars and on the uniforms worn by Team Penske drivers and teams competing in NASCAR. (*www.siemens.com/plm*)

Seco Tools

RELEASES MACHINING NAVIGATOR

With intelligent interactivity, the Machining Navigator pages look just like those in a standard interactive PDF or flip book but provide several useful capabilities. Users can quickly access the catalog page for a specific product range by clicking on the name of the product from the list on the contents pages. Instead of searching through multiple catalogs, brochures and website pages, just a few clicks take users directly to the product's interactive catalog page for detailed information and helpful links.

Included in the Machining Navigator PDF pages are links to secotools.com for a more in-depth presentation of each Seco product and support that will help users to find and order the best tool to meet a particular need.

Seco's interactive functionality also allows users to build their own flipbook by selecting pages to compose a customized "summary" of products. This flipbook can be emailed, printed or downloaded for future reference. (*www.secotools.com*)

Romax Technology

COLLABORATES ON AEROSPACE PROJECT WITH CRANFIELD UNIVERSITY

Cranfield University and Romax Technology have forged a collaboration to support an aerospace Ph.D. project investigating an open rotor and pitch control mechanism. Within this partnership agreement, alongside licences of their flagship software product, Romax will also provide technical support for both software usage and practical application for the duration of the project. This will include workshop activity to specifically focus on developing deeper understanding where necessary.

Romax's Partnership Management Specialist, Sam Wade, comments: "Our academic program aims to collaborate with universities from all around the world and has more than 50 partners. We provide students with state-of-the-art software, access to world-leading experts, and the most up-to-date methods and tools, in order to support world-leading research and help to develop excellence in the next generation of engineers. We are thrilled to invite Cranfield University to join our academic program and for the opportunity to provide support for some very exciting research within the aerospace industry."

Dr. Bobby Sethi, Leader of Cranfield University's "Technoconomic Environmental Risk Assessment (TERA)" for Civil Aviation comments: "We believe joining Romax's partner program will be very beneficial for us. Our collaboration with Romax will enable our Ph.D. students to use the latest simulation tools on their research projects. Knowing that the software is backed up by experts with experience from a range of projects within the aerospace sector, who can provide technical support and training where necessary, is very reassuring."

The project will use Romax's flagship product, *RomaxDesigner*, a complete simulation platform for end-to-end integrated whole system design and analysis. With a strong client base in the automotive sector, *RomaxDesigner* is being used more and more by the aerospace industry, to investigate novel design concepts and make optimizations regarding noise and efficiency. (*www.romaxtech.com*)

Hannover Messe 2018

FOCUSES ON ROBOTICS, AUTOMATION AND SMART MANUFACTURING

Robotics and automation continue to take center stage at manufacturing trade shows around the world and Hannover Messe 2018 was no exception.

"Technology is not about competing with us humans; it's about assisting us. That is the core message conveyed by this trade fair, which has again underscored Hannover's reputation as a global hotspot for the digital transformation of industry," said Dr. Jochen Köckler, chairman of the managing board at Deutsche Messe, at the close of Hannover 2018 and CeMAT. "The focus here has clearly been on the human element: We're the ones making the decisions and setting the course. The interaction of humans with machines and IT adds up to a huge competitive gain across manufacturing, logistics and the energy industry."

Under the motto of "Integrated Industry – Connect & Collaborate", a total of 210,000 visitors seized the opportunity to explore the innovations on display. A total of 5,800 exhibitors were present at Hannover Messe & CeMAT. Topics like machine learning, artificial intelligence, industrial IT platforms, the expansion of power grids for eMobility, the use of robots and autonomous systems in production and intralogistics, and the role of workers in the integrated factory were the subject of intense debate at the stands of exhibitors at the event. As the official Partner Country, Mexico profiled itself as an innovative business partner and industrial location.

"Businesses have successfully negotiated the first steps on the path towards digitized, connected production and are now firing up for the second stage of the journey," reported Thilo Brodtmann, executive director of the German Engineering Federation (VDMA). "New platform-based business models, the use of digital twins and initial experiences with machine learning – all of this is set to play an increasingly important role in the mechanical engineering sector. Hannover Messe is a place where people present and discuss the shape of things to come, and we are once again highly satisfied with the outcome of the show," he continued.

Out of a total of 210,000 visitors at the fair, more than 70,000 of them came from abroad, for an international share of 30 percent. China headed the foreign visitor statistics with a total of 6,500, followed by the Netherlands (5,300), Poland (2,700) and the United States (1,700). A total of 1,400 visitors attended from Mexico.

The next Hannover Messe will be staged from April 1-5 2019, with Sweden as the official Partner Country. The next CeMAT will run parallel to Hannover Messe in April 2020. (*www.hannovermesse.de*)