

Fastener NEWS REPORT

GLOBAL BUSINESS & MARKET INFORMATION

MWFA FSTNR Week '22 — A Major Success

The **Mid-West Fastener Association (MWFA)** held the *FSTNR (Fastener Show, Training, Networking, Recreation) Week* August 21 to 26, 2022, at the **Hilton Oak Brook Hills Resort** in Oak Brook, IL, USA. MWFA Executive Director, **Nancy Rich**, reports that the successful week-long event kicked off on Sunday, August 21 with a charitable event — MWFA's partnership with **Sleep in Heavenly Peace** saw over 75 fastener people build 80 beds to help children in need.



On August 23, prior to the open of the *MWFA Fastener Show*, a "Safeguards for Buying Import or Domestic Manufactured Fasteners Seminar" focused on avoiding costly mistakes in product error. On the afternoon of August 23, the MWFA hosted its 40th *Tabletop Fastener Show* with over 90 suppliers from across the country exhibiting their products in the heart of the fastener industry to hundreds of visitors. Attendance was up from 2021, indicating the industry is ready to be out visiting and sourcing suppliers in person. The show featured suppliers of fasteners, secondary services, heat treating and plating as well as services to the fastener industry. During the show, the 40-year exhibitors were recognized.

After the show, the famous "MWFA Fastener Bash" was held adding a Luau flair. Hawaiian dancers presented guests with leis and later entertained with Hawaiian dances. Guests enjoyed luau-themed appetizers and cocktails while having an opportunity to continue networking. The day after the show featured the 69th MWFA Golf Outing at the **Willow Crest Golf Club**, home to numerous professional and amateur golf events. www.mwfa.net

Big Bolt Acquires Delta Secondary to Expand Presence in the Strategic Secondary Services Growth Category

Specialty fastener manufacturer **Big Bolt, LLC**, Bloomingdale, IL, USA, recently acquired **Delta Secondary, LLC**, Bensenville, IL, USA, a manufacturer of fasteners and provider of secondary services. Delta provides fast-turn manufacturing and key secondary services such as cutting, chamfering, drilling, tapping, turning, milling, slotting, grooving and thread cutting. Big Bolt, LLC is investing in Delta Secondary's operations to create capacity to handle future growth. In addition, the Delta Secondary, LLC team

brings significant fastener manufacturing experience and capabilities, which enables both organizations to optimize operations resulting in additional speed to service the industry.



"Delta is a great fit—commercially, operationally and culturally—and a valuable extension to Big Bolt's existing operation," said **Tom Moore**, Chief Executive Officer of Big Bolt. "This acquisition allows us to expand our manufacturing capabilities in a strategic area in to better meet customer demand." The Delta team and its base of operations remain in Bensenville. The acquisition became effective on July 29, 2022. www.gobigbolt.com • www.deltasecondary.com

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Initial Publications, Inc.

1741 Akron Peninsula Road,
Akron, OH 44313 USA
Tel: +1 330 864 2122 • Fax: +1 330 864 5298
www.fastenertech.com

Chip Lippincott	Publisher
Mike McNulty	VP & Editor
Jim Masar	Senior Editor
Tom Hutchinson	Global Sales Manager
Anna Lippincott	Sales Manager
Pete McNeil	Sales Representative

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Notebook

bisco Opens Facility in Manila, Philippines

bisco industries, Anaheim, CA, USA, is excited to announce the opening of its 52nd sales facility and first off-continent location in Manila, Philippines. bisco serves clients in a wide range of industries including aerospace, fabrication, communication, instrumentation, and medical. bisco is authorized for industry-



leading manufacturers including **Southco, PEM, nVent, Mill-Max, KATO, Heyco** and many more. This new brick and mortar location is the next step in expanding bisco's reach to better serve customers and emphasize its go-to-market strategy of having local feet on the street.

Clients in Asia can anticipate an even faster response times along with increased access to bisco's supply chain services and extensive inventory. In addition to its 52 local facilities and 7 strategically located North American distribution centers, bisco offers a full-service e-commerce website where customers can get quotes and place orders.

www.biscoind.com



Würth Industry North America Expands Executive Team

Würth Industry North America (WINA), Indianapolis, IN, USA, the leading industrial distributor of supply chain solutions for fasteners, MRO, and safety equipment, has announced three senior executive-level hires to support its divisional structure and to position itself for continued rapid growth. The reorganization allows divisions to focus wholly on their vertical market and to offer unparalleled product range, services and expertise to their respective industries.

Bastian Rottenberg was hired as the company's Chief Information Officer. He worked for **Würth Industrie Service** in Germany for seven years before owning his own IT business, then rejoining the Würth Group in 2020 and joining WINA in January 2021. WINA also welcomed **Ben Standhardt** as VP of Process Management and Automation. He has been with the **Würth Group** since 2016 and, before joining in May, was Managing Director of **Würth Industri Norge AS** in Norway. He is responsible for optimizing business processes and measures/key per-

formance indicators for the divisions of WINA with focus on finding processes with the potential to be transferred to Robotic Process Automation.

Additionally, **James Valdez** was named Chief Human Resources Officer for WINA. Valdez brings over 20 years of comprehensive human resources experience. He has proven experience at multi-billion dollar corporations collaborating with senior management to develop and maintain strategic and tactical plans to enable business growth and meet HR business needs.

www.wurthgroup.com



SFS exceeds its growth targets in first half of 2022

In a challenging environment shaped by considerable uncertainty, SFS Group exceeded its first half 2022 growth targets in all regions and end markets—with the exception of the automotive industry. The completion of the transaction with Hoffmann at the beginning of May 2022 marked the internationalization of the trading business conducted by the Distribution & Logistics segment.

At CHF 1223.6 million, sales in the first half of 2022 were 27.8% up on the last year, while the EBIT margin adjusted for one-off effects stood at 14.7%.

How the economy will perform in the second half of 2022 is far from certain. SFS expects business activities to slow in the second half of 2022, yet expects sales growth

to remain unchanged at 3% to 6% for the year as a whole.

The SFS organization is designed to maximize proximity to our customers. Clear responsibilities encourage the entrepreneurial behavior of SFS employees.

www.sfs.com

Brighton-Best names Alvaro Najera Warehouse Manager

Brighton-Best International, Inc., Long Beach, CA, USA, is pleased to announce the promotion of Alvaro Najera to Warehouse Manager for the Carol Stream off-site facility in Illinois, USA.

Brighton-Best International offers manufacturers new products, more extensive inventory, world-class service, quality products and a 24-hour on-line web ordering website. To learn more, visit:

www.brightonbest.com



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Industrial Fasteners Market Size Projected to Exceed \$123 Billion

According to a report by **Straits Research**, the global industrial fasteners market was valued at US\$88.43 billion in 2021 and is expected to grow to US\$123.18 billion in 2030. The market is expected to grow at a CAGR of 4.23% during the forecast period (2022–2030). The Asia-Pacific region has the major share of the market with an estimated revenue of US\$57.89 billion in 2030 at a CAGR of 5.4%.

The report says that the externally threaded fasteners segment has the highest share, with a revenue of US\$42,882 million in 2021 and expected to reach at US\$63,726 million by 2030 at a CAGR of 5%.

And based on the segmentation by application, the automotive industry segment with a market share of some US\$28,904 million in 2021 is expected to grow to US\$40,083 million by 2030 at a CAGR of 4%.

The industrial fasteners industry is one of the few industries that has a constant need in the global market. Major industries like automotive, aerospace, manufacturing and construction industries have a constant need for such fasteners. The fasteners are used to bond two or more components of a product together to form a solid joint for the efficient functioning of the end product. Fasteners can fasten and join varied parts irrespective of the material to be joined.

Though there has been an evolution in the fastening industry by introducing chemical bonding techniques, the need for fasteners has never gone down with its resilience and the limitations of the chemical adhesives for the bonding purpose.

Get a free sample copy of the Straits Research report at the website below.
www.straitsresearch.com

Simpson Announces CEO Retirement & Succession Plan

Simpson Manufacturing Co., Inc., located in Pleasanton, CA, **SIMPSON** USA, and an industry leader in engineered structural connectors and building solutions, has recently announced that Karen Colonias will step down from her position as Chief Executive Officer as part of Simpson's succession plan, effective December 31, 2022.

Additionally, the Simpson Manufacturing Board of Directors has unanimously elected Michael Olosky, current President and Chief Operating Officer, to succeed Karen Colonias as Chief Executive Officer, effective on January 1, 2023, and

as part of the planned leadership succession.

In connection with his promotion, Olosky will also join the Company's Board of Directors on January 1, 2023. Colonias will continue in her role as CEO through the end of 2022, after which she will remain employed as an Executive Advisor to assist with the transition until her retirement on June 30, 2023. She will continue to serve as a member of Simpson's Board of Directors until the company's 2023 annual meeting of stockholders.

Simpson Manufacturing Co., Inc., through its subsidiary, Simpson Strong-Tie Company Inc., designs, engineers and is a leading manufacturer of wood construction products including connectors, truss plates, fastening systems, fasteners and shear walls and concrete construction products. Included in these products are adhesives, specialty chemicals, mechanical anchors, powder actuated tools and reinforcing fiber materials.

www.simpsonmfg.com



Fastener
NEWS REPORT

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TR Fastenings Launches Interactive 3D Animations

TR Fastenings Ltd., part of the **Trifast plc** group, has launched new interactive 3D animations to help make its fastener products



and installation methods easier to understand for buyers and design engineers as well

as for training and educational. These real-time technical animations expertly demonstrate products, processes and concepts, which can often be complex and hard to visualize.

There is growing worldwide demand for more interactive content, specifically within the fastener industry, which TR is fully embracing and taking advantage of with its animation know-how. It is fast evolving especially with Virtual (VR) and Augmented Reality (AR) starting to disrupt industrial design and engineering. With the advent of emerging technologies, manufacturing has become more complex, so the integration of VR and AR is enabling manufacturers to simplify these processes. Produced by TR's in-house visualization team, 3D models have been made in collaboration with TR's technical and design teams.

www.trfastenings.com

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Fastener Training Institute (FTI) Announces New Board Officers & Members

The Fastener Training Institute (FTI), the leading nonprofit provider of fastener training opportunities, announced the appointment of a new



FASTENER
TRAINING
INSTITUTE

Board President and Members. FTI appointed **Chris McCaffrey**, Business Development Manager, **Atlanta Rod and Manufacturing**, as President of the Board. Chris has served on the FTI Board since 2018 as a director and vice president. He has worked in the industry for nearly 20 years and strongly supports fastener industry training.

FTI Board Members, as of September 2022, are as follows:

- President—**Chris McCaffrey**, **Atlanta Rod and Manufacturing**
- Vice President—**Greg Rawlings**, President, **Nylok**
- Treasurer—**Dallas Puckett**, **Valley Nut and Bolt**
- Director—**Bob Baer**, President, **Abbott Interfast**
- Director—**Gene Simpson**, President, **Semblex**
- Director—**Jennifer Sturm**, **Empire Bolt & Screw**

For more information about the Fastener Training Institute, visit:

www.fastenertraining.org

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Fastener Distributor Index (FDI) Rebounds to 52.6

The FDI rebounded to 52.6 last in August, seasonally adjusted, returning to expansion territory after dipping to 46.1 the previous month. In contrast, the Forward Looking Indicator (FLI) sank to 47.4, reflecting growing uneasiness with expected market conditions, and ending the streak of 26 consecutive months of positive (+50.0) outlook.

Click in to episode #180 of the Fully Threaded Radio podcast as Baird analyst **Quinn Fredrickson** joins Fastener Technology In-

ternational Magazine editor **Mike McNulty** for further commentary and analysis.

Please share the FDI with your fellow North American fastener distributors and encourage them to participate. Your help keeps the index strong:

www.fastenersclearinghouse.com/fch/main.nsf/FastenerDistributorIndex

www.fullythreaded.com

www.fdisurvey.com



Fastener Distribution Trends: August 2022

FASTENER DISTRIBUTION AT A GLANCE											
August 2022											
	Index Values									Rate of Change	
	Aug	Jul	Jun	May	Apr	Mar	Feb	Jan	Direction		
ISM PMI (Manufacturing)	52.8	52.8	53.0	56.1	55.4	57.1	58.6	57.6	Growing	Same	
FDI	52.6	46.1	53.8	52.7	52.6	57.2	56.0	52.7	Growing	Faster	
FLI	47.4	58.1	51.5	55.4	55.1	65.4	55.6	62.8	Declining	Faster	
(Other Metrics)											
Sales	51.9	43.2	65.5	56.3	60.5	75.2	79.1	64.5	Growing	Faster	
Employment	53.4	62.5	59.1	62.9	53.1	62.1	48.3	55.0	Growing	Slower	
Supplier Deliveries	55.2	52.1	65.2	69.4	68.8	69.7	72.4	71.7	Growing	Faster	
Respondent Inventories	72.4	66.7	63.6	62.9	59.4	50.0	56.9	41.7	Growing	Faster	
Customer Inventories	46.6	27.1	28.8	27.4	29.7	21.2	25.9	18.3	Declining	Slower	
Pricing, month-to-month	65.5	68.8	68.2	77.4	78.1	83.3	81.0	81.7	Growing	Slower	
Pricing, year-to-year	91.4	91.7	90.9	95.2	95.3	95.5	94.8	95.0	Growing	Slower	
6-Month Outlook - August									Higher Same Lower		
									28%	45%	28%

FDI and Pricing are diffusion indexes. At 50, the performance of the category listed met expectations. A reading above 50 suggests the category outperformed expectations, while a reading below 50 suggests the category underperformed expectations.

Source: Baird, FCH Sourcing Network, Institute for Supply Management

Wesco declares quarterly dividend on preferred stock

On August 31, 2022, the Board of Directors of Wesco International, Pittsburgh, PA, USA, declared a cash dividend on the company's 10.625% Series A Fixed-Rate Reset Cumulative Perpetual Preferred Stock for the period, July 1, 2022, through September 30, 2022. The dividend is US\$664.0625 per preferred share, or US\$0.6640625 per depository share, and is payable on September 30, 2022 to share holders of record at the close of business on September 15, 2022.

Wesco International builds, connects, powers and provides products to protect the world. Wesco is a FORTUNE 500® company with more than US\$18 billion in annual

sales and a leading provider of business-to-business distribution, logistics services and supply chain solutions.

Wesco offers a best-in-class product and services portfolio of electrical and electronic solutions, communications and security solutions as well as utility and broadband solutions. The company employs approximately 18,000 people, partners with the industry's premier



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www.fullythreaded.com

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CAMCAR Innovations® Names TORX® Drive System World Class Quality Award Winners

CAMCAR Innovations® has announced the 2021 winners of its TORX® Drive System World Class Quality Award. Camcar established the annual award program in 2005



to recognize its high-performing, qualified licensees who demonstrate the greatest commitment to manufacturing high quality, genuine TORX products during the previous calendar year.

Five drive tool and 18 fastener manufacturers representing the countries of China, Germany, Japan, Malaysia, Mexico, Singapore, Spain, Taiwan and the USA were among the TORX licensees receiving the TORX quality award for their performance in 2021.

TORX Drive Tool Licensees:

- KOKEN Tool Company, Ltd., Japan
- Pratt-Read, LLC, USA
- Progressive Chun Yip Co., Ltd., China
- Snap-On, Inc., USA
- Yih Cheng Factory Co., Taiwan, ROC

TORX Fastener Licensees:

- Acument Global Technologies, Mexico
- Air Industries Company, USA
- Arnold Fasteners Co., Ltd., China
- Arnold Umformtechnik GmbH, Germany
- CELO, S.A., Spain
- CELO Suzhou, China
- EJOT-ATF Fasteners, Mexico
- Ideal Fasteners, Inc., USA
- Industrias Lotu, S.A., Spain
- Infastech/Tri-Star Limited, Taiwan
- ITW Shakeproof Industrial Group, USA
- MNP Precision Parts, LLC, USA
- Semplex Corp., USA
- Sin Fu Shan International Corp., Taiwan
- Southco, Inc., USA
- TR Formac Pte, Ltd., Singapore
- Unisteel Technology(M)Sdn Bhd, Malaysia

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investors.wesco.com

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www.SPIROL.com

Notebook

Copper State Bolt & Nut Breaks Ground on New Distribution Center

Family owned **Copper State Bolt & Nut Co.**, Phoenix, AZ, USA, is expanding its 50-year West Valley presence with a new Class A distribution center in the award-winning PV 303 industrial park in Goodyear, AZ, USA.



Copper State Bolt & Nut Co.

Being built by local general contractor, **Stevens-Leinweber Construction (SLC)**, the project was prompted by the growth of Phoenix's far West Valley, where Copper State customers are actively involved in a growing list of projects and will benefit from a more immediate access point for Copper State products.

Founded in Phoenix in 1972 with six employees, Copper State today employs almost 500 and supports more than 20,000 customers across the west and southwest USA. The company today provides traditional fasteners, construction products, industrial supplies and specialty products to a wide range of construction and manufacturing-related industries.

Copper State Bolt & Nut is dedicated to excellence in all phases of its business through a strong commitment to quality, customer service and return on equity.

www.copperstate.com



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Global Supply Acquires

The Fastener Group

Global Supply Inc., Woburn, MA, USA, a distributor of fasten-



Global
Supply Inc.

ers to the industrial and defense market, has acquired **The Fastener Group**, of Avon, MA, USA. The Fastener Group is distributor of fasteners and electrical components to various manufacturing sectors. The move to acquire The Fastener Group first started as part of the Global Supply's Strategy to expand its geography, product offering and customer reach. The process took six months to complete and was signed on July 29, 2022.

The acquisition of The Fastener Group fits into Global Supply's strategy to expand in the industrial and defense markets. "The addition of The Fastener Group team will greatly enhance our ability offer more products and services to our customers," commented **Scott Robichaud**, President of Global Supply Inc. The Fastener Group, will maintain all operations in its current location in southern Massachusetts, which is considered a key part of the acquisition by Global Supply. **Deena Russo**, a key player in the organization, will be the Managing Director of all operations in Avon.

www.globalsupplyinc.com

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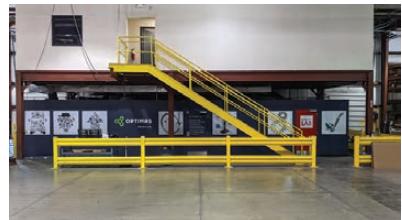
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Optimas Re-Opens Indiana Quality Lab to Meet Growing Demand for Regional Testing Services

Optimas Solutions, Wood Dale, IL, USA, a global industrial manufacturer/distributor and supply chain solutions provider, announced the re-opening of its Quality Lab in Columbus, IN, USA. This move is an outcome of the company's Forward Faster strategy introduced last year to be closer to and more intimate with customers.

"Over the last two years, we've gathered key learnings, many of which include quality services, which has helped us develop our Forward Faster strategy. Based on customer requirements, it made sense to re-open the lab and provide fast, cost-effective quality lab services closer to our customers' locations," said **Daniel Harms**, President of the Americas for Optimas. "Our foundational aspect of Forward Faster is to be 'one' with our customers and to do everything we can to make them more successful. This move is another effort to do that in this region and beyond."

The quality lab conducts general parts



inspections and Production Part Approval Process (PPAP) evaluations. The goal is to offer faster quality lab services by localizing capabilities. The lab also offers additional inspection tools/capabilities with localized service. The facility averages over 200 PPAPs per month including new products, kitting and engineering changes.

With these resources and more, Optimas can now get source release parts (prototype parts) turned around much faster in Optimas' regional location. For this process, it can inspect and ship within 48 hours of receipt. All of this helps customers speed their development and production cycles.

www.optimas.com

ABC US manufactures and distributes engineered fasteners under the SPAX brand name for the construction market, the TruFast brand for the commercial roofing industry and the TruFast Walls brand for exterior building envelopes and facades.

Altenloh, Brinck & Co. is located in the northwest section of Ohio where more than 350 dedicated employees operate a 200,000 ft² complex comprising engineering, manufacturing, administration and warehousing in Bryan. The company also maintains a 100,000 ft² heat treat and packaging facility in Pioneer, OH, USA.

In Altenloh, Brinck & Co. US, Inc.'s Grand Rapids, MI, USA location, the company develops, services and distributes the TRUFASTWalls branded products.

Additionally Altenloh, Brinck & Co. operates several warehouses around the USA.

ABC US is part of the Altenloh,

Brinck & Co. Group, headquartered in Ennepetal, Germany.

www.altenloh.us

Christopher Hussey to Florida Branch Manager for Century Fasteners Corp.

Century Fasteners Corp. has hired fastener industry sales and



Century Fasteners Corp.

management professional, Christopher Hussey, as the Tampa, FL, USA, Branch Manager.

Christopher Hussey joins the Century team with over 13 years of sales and management experi-



Volt Industrial Plastics, Inc.

700 Hwy. 202 W • Yellville, AR 72687, USA
Contact: Heidi Volltrauer, COO
Toll-Free: +1 800 844 8024
Toll-Free Fax: +1 877 453 8707
Web Site: www.voltplastics.com
E-Mail: heidi@voltplastics.com

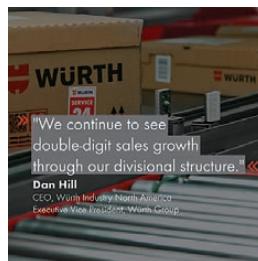
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Würth Industry North America (WINA) Reports Record Revenue Through July 2022

Würth Industry North America (WINA), Indianapolis, IN, USA, reported record, double-digit revenue growth through July 2022, seeing an increase of 16.5% compared to the previous year.

Despite ongoing supply chain challenges and an unstable economic situation, the company was able to carry its growth momentum from 2021 and is on track to report the largest annual sales volume in its 26-year history.

The company's divisional structure has contributed to its continued sales success. The MRO, Safety & Metalworking division saw a 22.7% increase over the prior year, and the Industrial Division, including domestic and international business from Canada, Mexico and



Brazil, grew 14.8%. The company's alignment into divisions was completed in 2021. The multi-year business transformation was designed to streamline and optimize the operations, product range and purchasing power of the group of North American companies and grow total sales that contribute to the overall success of its parent company, the **Würth Group**. Since then, all four divisions have shown total year-over-year sales growth.

The company continues to focus on investing in people, facilities and inventory to maintain a high service degree with existing customers and expand its ability to onboard new customers. www.wurthindustry.com

ence in the aerospace, defense, medical and fastening industry. His experience includes the development of sales strategies, account relationship management, contract negotiations, supplier relationships, inventory management techniques and sales training.

As the Tampa, FL Branch Manager, Christopher Hussey will be responsible for the development of major accounts, growth in sales and the customer relationships within the Century Fasteners Corp. Tampa branch. Hussey now reports to the company's Director of Operations, James D. Harding.

Century Fasteners Corp. is a Master Distributor of fastener and nonfastener parts and components

to the military, aerospace, electronics, automotive, sheet metal fabrication, contract manufacturing, telecommunications and medical industries.

www.CenturyFasteners.com

Winsupply Grand Opening of Center for Innovation

Winsupply continues investing and innovating with the opening of the **Richard W. Schwartz Center for Innovation** and the reopening of **Winsupply** of Dayton. For the first time in Winsupply history, the **Winsupply** Support Services teams have the ability to work alongside a successful local company to quickly develop, test and refine innovations.

These innovations include IT solutions, inventory management, warehouse operations, merchandising and product deliveries, customer communications, vendor marketing and showroom displays. Upon testing, these innovations can be rolled out nationwide to help every Winsupply local company.

www.winsupplyinc.com

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- Salt Spray Testing
- Other Specialized Tests



Notebook

Smalley Wins GM Supplier Quality Award for Tenth Consecutive Year

Smalley, Lake Zurich, IL, USA, has received the 2021 **General Motors** Supplier Quality Excellence Award for the tenth consecutive year. The award is given to top-performing suppliers that meet/exceed a stringent set of quality performance criteria. Smalley has now won the award every year since its inception.



Smalley is a quality-driven organization that provides the highest quality retaining rings and wave springs. Smalley's products have been used in the automotive industry for over 100 years. With offices throughout the globe, Smalley has been committed to quality and customer satisfaction. In accordance with the requirements of *ISO 13485:2016*, *ISO 9001:2015*, *IATF 16949:2016*, *AS9100:2016* and *ISO 14001:2015*, Smalley is able to offer customers worldwide unparalleled service and quality.

www.smalley.com



Ventura Industrial Products, LLC

Jackie Ventura Sales Representative

Phone: 330-467-0102 • Mobile: 216-338-8485
Fax: 330-467-0108 • Email: JV@JackieVentura.com

Web: www.JackieVentura.com
News & Notes: www.JackieVentura.Net

Skype: Jackie.Ventura1
Twitter: @JackieVentura1

EVENTS & OPPORTUNITIES

Fundamentals of Threaded Fastener & Joint Design

From December 6 to 8, 2022, **Matrix Engineering Consultants and NNi Training and Consulting Inc.** will conduct the inaugural training session, *Fundamentals of Threaded Fastener and Joint Design*. The course will provide an in-depth explanation of fastener terminology, technology and threaded fastener joint design calculations and strategies. Course participants can attend in-person or via a live on-line stream.

The course will be conducted from the training facilities of Matrix Engineering Consultants, located in Eden Prairie, MN, USA. And the course will be taught by **Laurence Claus**, President of NNi Training and Consulting Inc. and **Jon Ness**, Principal Engineer of Matrix Engineering Consultants.

Participants can earn up to 24 Professional Development Hours with this course. Register before November 6 for an early-bird discount. For more information or to register scan the accompanying code or visit:

www.matrixengrg.com

Fastener Training Week in Los Angeles in November 2022

The **Fastener Training Institute (FTI)** announced that its next *Fastener Training Week* in-person training class takes place November 14 to 18, 2022, in Los Angeles, CA, USA. This advanced technical training program is offered in partnership with the **Industrial Fasteners Insti-**

tute (IFI) for fastener distributors, manufacturers and end-users.

Fastener Training Week, sponsored by FTI's Education Program Sponsor, **Optimas Solutions**, and hosted by the **Pacific-West Fastener Association**, offers five intensive days of education and plant tours as part of the FTI Certified Fastener Specialist™ (CFS) advanced technical training program. After completing this industry training class in a small group environment and passing a final exam, attendees are eligible for the Certified Fastener Specialist™ (CFS) designation.



Fastener Training Week covers manufacturing processes, consensus standards and quality control taught by leading industry experts **Salim Brahimi**, IFI Director of Engineering and Technology, and **Laurence Claus** of **NNi Training and Consulting**. Participants will also tour manufacturing, secondary processes and testing facilities.

Class registration as well as more information is available at www.fastenertraining.org, with early-bird fees until October 31.

A US\$500 discount is available for **Pac-West**, **NFDA**, **IFI**, **MWFA**, **NCPA**, **SFA** and **AIM Prime** members. Grants to attend are being offered by the IFI. Find out more at:

www.bit.ly/FTWLA22.com

Fastener Fair Italy

Fastener Fair Italy provides a showcase and business forum in one of Europe's leading industrial economies. It takes place November 30, 2022 to December 1, 2022, in Fiera Milano City, Italy. www.fastenerfairitaly.com

September 19, 2022

EVENTS

September 28 – 30, 2022

Southern Fastener Conference and Expo
Durant, OK, USA
www.southwesternfastener.org

October 11 – 13, 2022

parts2clean 2022, Stuttgart, Germany
www.parts2clean.com

October 6, 2022

Pac-West Dinner Meeting and Vendor Showcase, La Mirinda, CA, USA
www.pac-west.org

October 17, 2022

FTI Class: How Fasteners Are Made and What Drives the Cost of a Fastener
Las Vegas, NV, USA
www.fastenertraining.org

October 17 – 19, 2022

International Fastener Expo 2022
Las Vegas, NV, USA
www.fastenershows.com

October 19 – 20, 2022

FASTENER POLAND®, Krakow, Poland
www.fastenerpoland.pl/gb/

October 30, 2022 – November 1, 2022

STAFDA San Diego Convention & Trade Show, San Diego, CA, USA
www.stafda.org

November 9 – 11, 2022

NFDA Executive Summit, Naples, FL, USA
www.nfda-fastener.com

November 14 – 18, 2022

Fastener Training Week
Los Angeles, CA, USA
www.fastenertraining.org

November 30 – December 1, 2022

Fastener Fair Italy, Fiera Milano City, Italy
www.fastenerfairitaly.com

December 6 – 8, 2022

Fundamentals of Threaded Fastener and Joint Design
Eden Prairie, MN, USA
www.matrixengrg.com

March 21 – 23, 2023

Fastener Fair Global 2023
Stuttgart, Germany
www.fastenerfairglobal.com

May 3 – 5, 2023

Fastener Taiwan 2023
Kaohsiung City, Taiwan
www.fastener taiwan.com.tw

April 15 – 19, 2024

wire 2024
Düsseldorf, Germany
www.wire.de

