

## Event Descriptions

### Monday, June 3rd

#### **WHY FASTENERS FAIL**

8:30 a.m. to 4:30 p.m./Room TBA

Presented by the Fastener Training Institute®

Instructor: Laurence Claus, from NNI Training and Consulting, Inc.

Registration Fee:

Fastener Association Members, \$299

Non-members, \$399

Registration fees after May 13<sup>th</sup>: Fastener Association Members \$399, Non-members \$499

Like no other highly engineered product, the importance and criticality of the 'lowly' threaded fastener is routinely undervalued and misunderstood. No other product is used in such quantities and expected to perform at such high levels for such low cost. And yet, most of the fastener-consuming world simply considers these products to be "just" a bolt, screw, or nut. Ironically, experts say that as many as 95% of all fastener failures are the result of improper design, selection, and installation. Using real world examples of fastener failures, this workshop will explore how threaded fasteners are supposed to function and why they fail. In particular, this workshop will address failures in service due to improper selection and design, improper installation, and corrosion/embrittlement. It will also investigate the relationship between design characteristics and manufacturing, and how these can play a role in fastener failure. This workshop is designed for anyone, new or well established in the industry that desires to learn more about what causes threaded fasteners to fail. Upon completion, participants will, likely, forever scrap the notion that a fastener is "just" a bolt, screw, or nut.

Morning pastries and afternoon snacks with refreshments will be provided.

All students will receive a certificate of completion and printed binder of course material.

### Tuesday, June 4<sup>th</sup>

#### **FASTENER TECH '19 EXHIBITS OPEN**

10:00 a.m.-5:00 p.m.

Fee: Complimentary until May 13<sup>th</sup>

After May 13<sup>th</sup> \$50

#### **THREADED INSERTS AND COMPRESSION LIMITERS FOR PLASTIC ASSEMBLIES**

10:00 a.m.-11:30 a.m./Room TBA

Presented by: Spirol International

Instructed by: Christie Jones

Registration Fee: Complimentary

This informative seminar will cover:

- An overview of Threaded Inserts and Compression Limiters for Plastic Assemblies: Their function, advantages and disadvantages.
- How to select the most appropriate Threaded Insert and Compression Limiter for each assembly.
- Design guidelines for the plastic components that use various types of Threaded Inserts and Compression Limiters and features of their design that affect performance.

- Case studies about specific situations where a company encountered a performance issue either in the design stage or with an existing assembly. We will review the previous fastener that was being used, why it failed, and the thought process behind the solution.
- Installation equipment commonly used to install Threaded Inserts and Compression Limiters.

Attendees typically include Design, Manufacturing and Quality Engineers, and Purchasing personnel responsible for engineered components used in the fastening, joining and assembly processes. However, all are welcome!

Design guides and sample kits will be provided to all attendees!

Session taught by Christie Jones has been employed at SPIROL International Corporation since 1994. SPIROL is a global manufacturer of engineered components and installation equipment producing over 2 billion components a year and servicing over 15,000 customers worldwide. Over her 22 year tenure at SPIROL, Christie has worked as an Applications Engineer, Operations Manager, North American Sales Manager, and Market Development Manager. Christie's strong technical knowledge and broad background in fastening, joining and assembly make her an industry expert. Product design and enhancement, process development, product application, and Advanced Quality Planning have all been major aspects of her responsibilities. She has assisted countless companies in enhancing their competitiveness by reducing costs through fastener and component design. In addition to her current Marketing responsibilities, Christie also doubles as the chief trainer for the Sales Engineers and Customer Service teams at all of SPIROL's global locations. She presents at several technical seminars each year and has authored numerous articles on the importance of fastening and joining in the marketplace. Christie received her Bachelor of Science in Manufacturing Engineering from Worcester Polytechnic Institute (Worcester, MA) in 1994, and her Masters of Business Administration from the University of Rhode Island (Kingston, RI) in 2005.

### **ICC-ES EVALUATION REPORTS – PAVING THE ROAD TO PRODUCT ACCEPTANCE**

1:30 p.m.-3:00 p.m./Room TBA

Presented by: International Code Council Evaluation Service (ICC-ES)

Instructed by: Elyse G. Levy, S.E., Senior Staff Engineer

Registration Fee: Complimentary

Have you ever had use of your proprietary fastener product questioned by a building code official? Do engineers bypass use of your products because they are not familiar to them? Leading manufacturers of fasteners used in building construction, including some represented at Fastener Tech™, have obtained code evaluation reports through the International Code Council Evaluation Service (ICC-ES) to help them on both fronts.

ICC-ES issues technical reports on many types of building products. Evaluation reports on fasteners typically include design values derived from independent testing. These reports assure the user that the design values have been verified through an independent review and that the products are manufactured under a quality control program which is subject to ongoing surveillance.

Fastener types that have been evaluated by ICC-ES include wood screws, self-drilling tapping screws, nails and power-actuated fasteners, as well as innovative fasteners which cannot be easily categorized.

This presentation will introduce attendees to sample ICC-ES evaluation reports on fasteners and will show attendees how to access these reports, which are free to all. Information addressed in ICC-ES reports on fasteners will be highlighted, including contact information for the report holder, design information and installation requirements.

A tour of the ICC-ES website will be provided, through which all ICC-ES evaluation reports are available. The tour will demonstrate how to search for a particular report, or for reports on certain types of products.

Attendees will learn that ICC-ES is in a unique position to provide excellent technical information to building code officials and design professionals on a variety of new and innovative fastener products.

### **ALL INDUSTRY RECEPTION**

5:00 p.m.-7:00 p.m.

Fee: Complimentary to show exhibitors and attendees

## Wednesday, June 5, 2019

### **ECONOMIC OUTLOOK-CHICAGO FEDERAL RESERVE**

9:00 a.m.-10:30 a.m./Room TBA

Presentation by William A. Strauss. Mr. Strauss works in the economic research department at the Federal Reserve Bank of Chicago, which he joined in 1982. His chief responsibilities include analyzing the current performance of both the Midwest economy and the manufacturing sector for use in monetary policy. He produces the monthly Chicago Fed Midwest Manufacturing Index and organizes the Bank's Economic Outlook Symposium and Automotive Outlook Symposium. In addition, he conducts several economic workshops and industrial roundtables throughout the year.

Strauss teaches as an adjunct faculty member at several universities. He was named winner of the 2010 Excellence in Teaching Award in the Business and Professional Programs at the University Of Chicago Graham School Of General Studies. His research papers include analysis of the manufacturing sector, the automotive sector, the Midwest regional economy, and the trade-weighted dollar, business cycles and Federal Reserve payments operations.

Strauss has been interviewed on numerous television and radio shows including Fully Threaded Radio and is regularly quoted in major business magazines and newspapers. He has also provided testimony concerning manufacturing issues to the U.S. Senate. He has spoken to the MWFA group in the past and has proven to be insightful and informative.

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After May 13<sup>th</sup> \$50

### **AFTER SHOW PARTY**

3:00 p.m.-5:00 p.m.

In Exhibit Hall

Featuring Entertainment and Refreshments

Fee: Complimentary to show exhibitors and attendees

## Thursday, June 6<sup>th</sup>

### **67<sup>TH</sup> ANNUAL MWFA GOLF OUTING**

Chevy Chase Country Club

1000 N. Milwaukee Ave, Wheeling, IL 60090

Golf will be available at 7:00 a.m. & 12:00 p.m.

7:00 a.m. & Noon	Shotgun Start-Four Person Team Scramble
10:30-11:30 a.m.	Registration and Chipping Contest
11:00-11:45 a.m.	Lunch
12:00 p.m.	Shotgun Start-Four Person Team Scramble
6:00 p.m.	Cocktails
6:30 p.m.	Dinner