



# Surface Finishers Educational Association

929 Newhall St., Costa Mesa, CA. 92627

## January 2019 Educational Dinner Meeting

Date: Thursday, *January 10th*, 2019

Where: **JT Schmid's Restaurant & Brewery**

2610 E Katella Ave

Anaheim, CA 92806

Ph. (714) 634-9200



[Click for Map](#)

Time: 5:30PM Attitude Adjustment

6:30PM Dinner

7:00PM Speaker

**Speaker: Frank Altmayer** EDUCATION: B.S., Chemical Engineering, Illinois Institute of Technology (Honors Graduate); M.S. Metallurgy, Illinois Institute of Technology.

PROFESSIONAL AFFILIATIONS: American Electroplaters' and Surface Finishers' Society (AESF) Currently serving as Technical Education Director

EXPERIENCE: Mr. Altmayer is the former owner of Scientific Control Laboratories, Inc. in Chicago IL; a company that provides technical expertise to the metal finishing industry. He sold the company and "semi"-retired in 2007. He has been an instructor for AESF since 1980 and has served as Technical Education Director of AESF Foundation/NASF since 1992.

Frank takes on consulting projects as time allows. He has over 46 years experience in metal finishing, and the design and trouble-shooting of metal finishing processes/shops and waste treatment systems.

### Topic: Common Salt Spray Failures-Why Do They Happen?

The salt spray test is often described as unreliable and imprecise, especially when it is used to comply with aerospace specifications such as those published by Boeing. Companies have frequently asked what they can do to pass Boeing salt spray requirements on Alodine type coatings and Boric-Sulfuric anodic coatings. This presentation will cover testing procedures/theory, processing steps for Alodine and Boric-sulfuric anodizing and a few unusual conditions that can affect the test results for any coating that requires a salt spray test.

### Dinner

Cost: \$30.00 For Reserved Dinners

\$35.00 For Walk-ins

Dinner cost includes complementary Iced Tea, Coffee, and Pepsi Fountain Products

**Access to a full bar for your dining pleasure before and after the meeting.**

Make Dinner Checks out to: SFEA

Menu: A pdf of the menu is at the top of the RSVP page. To see menu options, please click on the RSVP button.

Please RSVP by Clicking  
the Link to the Right



[Click to RSVP](#)

OR

**Reservations: Please call or email in your reservation by *January 3rd***

To: Kathy Petruna

Ph: (714) 273-9071

email: [kpetruna@gmail.com](mailto:kpetruna@gmail.com)

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## 2018/2019 CALENDAR OF EVENTS

### Upcoming SFEA Educational Dinner/Meetings

#### Speaker

#### Topic

<b>February 7</b>	<b>Steve Norris</b> from Plasma Technology Inc.	"What is Thermal Spray?"
<b>March 14</b>	<b>Wanda Allen,</b> Founder, Followup Sales Strategies	<b>Follow Up Strategies That Will Get More Clients and Close More Sales</b>
<b>April 11</b>	<b>Sam Bell</b> from Metal Surfaces	<b>"How Ya Doin'"</b> Pre-control charts are an SPC technique whose time has come. The approach provides surface finishers with a rapid check of process status.
<b>May 9</b>	<b>TBD</b>	<b>TBD</b>

### Newsletter/Website Sponsor Ads

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[justin@watercleaning.com](mailto:justin@watercleaning.com)

## MFASC Continuing Education Seminars

**Steven's Steakhouse**

**5332 E. Stevens Place, Commerce, CA**

**3:00-5:00**

[Click Here](#) for the Southern Chapter Events



**2019  
LEGISLATIVE  
ACTION DAY –  
SAVE THE DATE**

March 18, 2019



**MFASC GOLF  
FUNDRAISER –  
SAVE THE DATE**

May 20, 2019

**For MFASC meeting information  
call:  
MFASC Headquarters—  
Veronica Anderhalt - (818) 238-9590**

## Check out the SFEA Web Site!!!



[Click Here to Check it out!](#)

The **SFEA** website is up and running, but we could still use your input .... so Please contact our web master

**Kathy Petruna** 714-969-1413 or

[kpetruna@gmail.com](mailto:kpetruna@gmail.com) with any thoughts, ideas or info to make this a better and more useful site for you.

*Help make this site something that everyone can benefit from.*

### President

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California Resource  
Management Association

### RCRA/DOT HAZMAT TRAINING

RCRA/DOT HAZMAT Training Course sponsored by the California Resource Management Association.

For Generators who Manage Hazardous Waste / Sign Manifests, Drivers, Loaders (90-day, 180-day area).

This 1-Day class informs students of the current regulations pertaining to hazardous materials and waste. Students will also be informed of the new post 9/11 DOT security regulations HM-232. Class includes Waste Management for employees working in the “90-Day” area.

[REGISTER NOW](#) for these upcoming dates:

**Monday, January 28, 2019**



Training & Education Update

### Web Based Courses

[Click Here for more  
information](#)

#### Plating Essentials

February 5, 6, 12, 13, 19, 20  
Reg Deadline Jan. 22

#### Environmental Stewardship:

##### Pollution Prevention

March 5, 6, 12, 13, 19, 20  
Reg Deadline Feb. 19

#### Electroplating & Surface Finishing

Parts 1 & 2 (CEF)

August 6, 7, 13, 14, 20, 21, 27, 28

October 1, 2, 8, 9, 15, 16, 22, 23

Reg Deadline July 23

#### Electroplating & Surface Finishing

Part 1 Only

August 6, 7, 13, 14, 20, 21, 27, 28

Reg Deadline July 23

#### Electroplating & Surface Finishing

Part 2 Only

October 1, 2, 8, 9, 15, 16, 22, 23

Reg Deadline Sep. 17

#### Plating Essentials

September 3, 4, 10, 11, 17, 18

Reg Deadline Aug. 20

#### Electroless Deposition

November 5, 6, 12, 13, 19, 20

Reg Deadline Oct. 22

### In Person Class

## Home-Study Program

### Register Here

Airline & Aerospace Finishing

Aluminum Finishing

Chromium Plating for Engineering Applications

Corrosion & Salt Spray

Electroforming

Electroless Deposition

Electroplating & Surface Finishing

Industrial & Precious Metals Plating

Just the Basics in Electroplating

Pollution Prevention

Wastewater Treatment & Control

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**Anyone wishing to post a want ad, please email me all pertinent information.**  
**[kpetruna@gmail.com](mailto:kpetruna@gmail.com)**

***THE "Surface Finishers Educational Association" LIBRARY is here to serve you.***

***The library location has been moved to Technic  
1170 Hawk Circle,  
Anahiem, CA. 92807***

***You can check out material by contacting any of the Officers.  
(see page 2 for list of Officers)***

***Anyone wanting to see the library list***

***...***

***please go to the website  
[www.sfeasc.org](http://www.sfeasc.org) and click on the library page. You can also download a pdf file of the library list while you're there.***

## Just a ?

***Do you know anyone who should be on the SFEA newsletter mailing list?***

***Send me their email address to [kpetruna@gmail.com](mailto:kpetruna@gmail.com) and I'll make sure they get all the mailings.***

## LINKS

### ***Organizations and Publications***

[www.nasf.org](http://www.nasf.org)  
[www.mfasc.org](http://www.mfasc.org)  
[www.metalfinishing.com](http://www.metalfinishing.com)  
[www.pfonline.com](http://www.pfonline.com)  
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<http://www.pfonline.com>

An article published in the  
Products Finishing Magazine.

## Fastener Coatings and the Coefficient of Friction

Friction is the most important mechanical property of a fastener. It's not a single parameter, however, but a complex system that needs to be analyzed thoroughly.

Article Post: 12/1/2018

RAINER VENZ

Managing Director , *Coventya*

Fasteners for the automotive industry must be protected from corrosion to ensure a long service life. Typically, pure zinc or zinc alloys are used as cathodic corrosion protection layers that can provide 720 hours or even more of neutral salt spray resistance, depending on the chosen system. In addition, zinc-nickel systems easily withstand the majority of cyclic corrosion tests and reduce the risk of galvanic corrosion.

But a fastener may have many more requirements than just extended corrosion protection.

Appearance is usually an important criteria and depends on the type of zinc or zinc alloy, as well as the passivate. It can be colorless, silver, bluish, iridescent or black. Topcoats can influence and stabilize the appearance as well. Depending on the final application on the fastener, other properties, like hardness, wear resistance or electrical conductivity can come into play.

Arguably, the most important mechanical property of a fastener, however, is a defined coefficient of friction (CoF).

### Friction is All Around Us

Whenever two objects in contact move against each other, friction is involved—sometimes more, sometimes less. For example, to make ball bearings work effectively, the coefficient of friction, often symbolized by the Greek letter  $\mu$ , must be as low as possible, typically 0,0015. A CoF of 0,005 – 0,03 is what makes ice skaters slide over a frozen lake. In contrast, there are also situations where high friction is beneficial. To ensure for example that cars can stop safely, brake systems (brake pad vs. brake disk) have a CoF 0,4. The friction value between tires and the asphalt on the road is approximately 1,0—clearly, the higher the better, to keep cars where we want them.

[Click here to read full article](#)



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## Today's Top 6 Manufacturing Topics

Posted by [Steven Brand](#) on Dec 12, 2018

The manufacturing industry has been making rapid advancements in recent years, paving the way for cutting-edge technologies. With each new innovation, manufacturing gets more efficient and more precise, leading to the cost-effective production of safer and higher-quality products. But despite common perception, not all advancements are just for the manufacturing giants; today, many small and medium-sized manufacturers (SMMs) are able to take advantage of them too. Here's a look at a handful of recent technologies and topics trending now within the manufacturing industry

### Six Manufacturing Trends Happening Now

#### 1. Additive Manufacturing

Also known as 3D printing, additive manufacturing and metal additive manufacturing are using simple digital files to bring real structures to life, layer-by-layer. This innovative manufacturing technology was first conceived in the 1980s, but it has not been until recently that its true abilities have been realized. Now, it's transforming the methods manufacturers use to create various parts and products and the industries that have embraced it are witnessing tremendous benefits.

For many years, the cost of additive equipment was just too expensive for SMMs to consider purchasing. But new technologies have changed that, making the cost of entry much more affordable and cutting equipment prices to as low as \$3,500 for a reliable industrial-quality machine. In addition, additive manufacturing has the ability to reduce energy costs and the amount of capital needed to scale up production without making major changes, allowing SMMs to increase the speed and profitability of their business model.

[Click here to read full article](#)

# What You Missed



## Speaker:

**“Meta- Materials,” Ed Kanegsberg,**

Vice President, BFK Solutions LLC, Pacific Palisades CA.

**“Social Networking,” Alicia Moreno,**

Sales and Manager, Alum-A-Coat Anodizing, South El Monte, CA.



**“Thermal Spray,” Steve Norris,**

New Projects Director, Plasma Technology Inc., Torrance CA

## Topic: Opportunities and Challenges in Surface Finishing

Hear about upcoming trends, pitfalls, and opportunities for surface finishers.

Our panelists will share their expertise and experience in the technical and business aspects of surface finishing. Join this interactive program and discover what's new in surface finishing and what's on the horizon.



I hope you all enjoyed  
our entertainment for  
the evening :  
"The Silver Express"

## Networking Time over Hors d'oeuvres



German Buffet Dining

Christmas Raffle Prize Winners: left -right

\$75. winner: Char Barauskas

\$50. winner: Courtney Nguyen from ACM Technologies

\$25 Winner: Bonnie Copeland from Ecosystems



**Our December  
50/50 Raffle  
Winner was ....  
Char Barauskas**

**Will You Be The Next Winner  
of the 50/50 raffle?**

