

## February 2019 Educational Dinner Meeting

Date: Thursday, **February 7th**, 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 : Steve Norris** New Projects Director and Facilities Manager at Plasma Technology.

Steve is New Projects Director and Facilities Manager at Plasma Technology Inc. He has been with PTI for twenty years. His background and expertise include design and architecture.

### Topic: Thermal Spray

- What is thermal spray?
- What are its applications?
- What is the future of thermal spray?

### 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 **February 4th***

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

March 14

**Wanda Allen,**

Founder, Followup Sales Strategies

**Follow Up Strategies That Will Get More Clients and Close More Sales**

April 11

**Sam Bell** from Metal Surfaces

**"How Ya Doin'"** Pre-control charts are an SPC technique whose time has come. The approach provides surface finishers with a rapid check of process status.

May 9

**TBD**

**TBD**

### Newsletter/Website Sponsor Ads

# ecosystems

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

## MFASC Continuing Education Seminars

**Steven's Steakhouse**

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

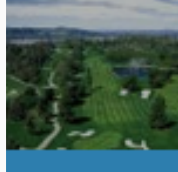
**3:00-5:00**

[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

**Doug Sear**

Optiforms

909-263-2585

[doug@optiforms.com](mailto:doug@optiforms.com)

### Vice President & Publicity Chairman

**Kathy Petruna**

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### Secretary / Treasurer

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### Sergeant at Arms

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### Program Chair

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### Board of Managers

**Ron Barauskas**

Retired

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[charnron@verizon.net](mailto:charnron@verizon.net)

**Paul Petruna**

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(714) 969-1413

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



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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:



## Training & Education Update

### Web Based Courses

#### 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

[Click Here for more  
information](#)

### 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

Zinc, Zinc-Alloy Plating



# Want Ads

Need a Job? Have a position to fill?  
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## Shift Supervisor - Packaging Department

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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)  
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<http://www.pfonline.com>

An article published in the  
Products Finishing Magazine.

## Direct Copper Metallization of Aluminum: Elimination of Zincate

*This article discusses the development of a new copper plating bath that can deposit high ductility copper metal directly on a wide range of aluminum alloy substrates. The process is particularly important for general metal finishing companies looking to plate aluminum parts for aerospace industry.*

Article Post: 11/17/2018

*Richard DePoto & Doug Duda\*\*  
Uyemura International Corporation  
Southington, Connecticut, USA*

### Introduction

There are numerous potential applications for lightweight aluminum to be used as a replacement for heavier and more costly metal structures. Applications for the expanded use of aluminum in electronics include bus bars, switch gears and terminal boards. In these applications, aluminum would replace copper. Additionally, in the automotive industry, although aluminum is commonly used, its use has been somewhat restricted due to the costly and complicated soldering techniques required to attach aluminum to other metal surfaces. If aluminum could be provided with a thin layer of well adherent copper, the utility of aluminum's inherent light weight and strength properties could be dramatically expanded. The current Process of Record (POR) to achieve adhesion utilizes a zincate conversion layer that is costly, unreliable and wears away at the aluminum surface, causing undesirable dimensional variation. An answer lies in the direct copper metallization of aluminum.

The claims for direct copper metallization are numerous. The process is said to simplify and reduce the number of steps required to plate copper on aluminum substrates by eliminating the required zincate conversion steps. It addresses the adhesion of the copper to low potential substrates such as aluminum, steel and stainless steel. With this process, copper adhesion to the aluminum substrate can be successfully soldered with lead free solder without peeling or blistering. An alkaline cyanide-free copper can provide adhesion performance to pass ASTM-B-571 spec for thermal baking 240°C for 60 minutes. Finally, the improved process should result in minimal or no removal of aluminum metal in the pretreatment steps.

[Click here to read full article](#)



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California Manufacturing Technology Consulting  
A non profit dedicated to improving the manufacturing  
community in souther California

## How Modern-Day Apprenticeships Can Help Manufacturers Succeed

Posted by [Steven Brand](#) on Jan 2, 2019

By now, you've probably heard the troubling statistics. IndustryWeek reports that nearly 25% of manufacturing employees are age 55 or older, and many will soon be leaving to enjoy a well-earned retirement. Unfortunately, there's no influx of new talent waiting to take their places. Some people feel shut out of job opportunities by degree requirements they don't have; others lack on-the-job experience they can't get; and then there are those who still view all manufacturing jobs as "dark, dirty, and dangerous," and simply aren't interested in the industry.

Because of this talent shortage, experts predict that there will be a total of two million [skilled manufacturing jobs](#) unfilled by 2025 if nothing is done now. To combat the next generation of workers' concerns about training and misconceptions about manufacturing, manufacturers of all sizes have once again begun embracing apprenticeships—that age-old method of transferring the [tribal knowledge](#) of one generation to the next.

## The Re-emergence of Apprenticeships

When you hear the word "apprenticeship," your mind may have you traveling back to 16th century England, when a young man—sometimes barely into his teenage years—would indenture himself to a "master" who would train him in a skilled profession, such as blacksmithing, in return for a bed, daily bread, and maybe a few shillings. Apprenticeships in the 21st century look much different, and since January 2017, employers have hired nearly 410,000 apprentices! Today's apprentices are male and female, ranging in age from late teens to middle-age. Apprentices can be found in a diverse number of fields, including healthcare, hospitality, finance, construction, energy, information technology, transportation, and of course, manufacturing. Some of the most in-demand manufacturing apprenticeships include CNC Set-Up Programmer, Precision Machinist, Industrial Maintenance Repairer, Mold Maker, Die Caster, Plastics Fabricator, and Tool and Die Maker.

[Click here to read full article](#)

# What You Missed



**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.



Chuck Reynolds, retired owner of Micel Chemicals ( now Miles Chemicals) is relocating to Texas.

He was in attendance at Jan 10, 2019 SFEA Dinner Meeting.

Chuck was heavily active in the AESF (American Electroplaters and Surface Finishers) both local and national positions for many years.

Everyone wished him well and gave him the honor that he deserves.

We'll miss you Chuck!



**Our January 50/50  
Raffle Winner was ....  
William Vogen retired  
from Hughs Aircraft**

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

