



## *Educational Zoom Meeting*

**Date:** Thursday, *September 8th*, 2021

**Where:** Zoom Meeting (Where ever you are)

**Time:** *9:00 AM* : Meeting call to order with introductions,  
Announcements and Speaker Introduction.

*9:15 AM* : Speaker and Q&A

*10:00 AM* : Meeting will adjourn,

### **Topic:** Making the Transition: Hexavalent to Trivalent Chrome Plating

This presentation will discuss the different pressures that are driving plating shops to switch from hexavalent to trivalent chromium. It will also cover the different types of trivalent chemistries that are available to the applicator and review the benefits of trivalent chromium plating. Lastly, the presentation will cover what equipment needs a plater would need in order to make the switch to trivalent chromium.

### **Speaker:** *Brittany McKinney* From Pavco

Brittany McKinney is a Technical Service Engineer at Pavco, Inc. in Charlotte, N.C., USA. She works on assisting customers in the finishing market, specializing in decorative metal finishing processes. She has been the lead research chemist for Pavco's "Hexagone Revolution" barrel chrome process, in addition to numerous other copper-nickel chrome research projects. Brittany has been the technical team leader on numerous successful barrel chrome installations domestically and internationally. She has three cats and plays recreational kickball in her spare time. She earned her B.S. in Chemical Engineering from North Carolina State University in Raleigh, N.C. Go Pack!

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[Click Here to Register](#)

## 2022/2023 CALENDAR OF EVENTS

### *Upcoming SFEA Educational Dinner/Meetings*

<i>Date</i>	<i>Speaker</i>	<i>Topic</i>
<i>September 8 (Zoom)</i>	<i>Brittany McKinney</i> <i>From Pavco</i>	<i>Making the Transition: Hexavalent to Trivalent Chrome Plating</i>
<i>October 13 (Zoom)</i>	<i>Coming Soon</i>	
<i>November 10 (In Person)</i>	<i>Alicia Moreno</i> <i>From Chrome Plating USA</i>	<i>"Parts Handling In Electroplating - Rack, Barrel, Hoist, Hand-Wire"</i>
<i>December 8 (In Person)</i>	<i>Coming Soon</i>	
<i>January 12</i>	<i>Coming Soon</i>	
<i>February 9</i>	<i>Coming Soon</i>	
<i>March 9</i>	<i>Coming Soon</i>	
<i>April 13</i>	<i>Coming Soon</i>	
<i>May 11</i>	<i>Coming Soon</i>	

*Barbara Kanegsberg ( Program Chair) along with the rest of the SFEA board members, are hard at work lining up the 2021/2022 speaker list. We strive to find interesting and educational topics and knowledgeable speakers that will bring a message to benefit you and your business. You can help by....Letting us know if there is a topic you would like to hear someone speak on ...OR...if you or someone you know would like to be a speaker for next year let us know!*

### **HURRY!! HURRY!! HURRY!!**

Put in for your **2022/2023**

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**Send all ad info/ad format or (jpeg) to Kathy Petruna  
[kpetruna@gmail.com](mailto:kpetruna@gmail.com)**

**Kathy will be happy to work with you on your ad  
format.**

For all of you wishing to sponsor the SFEA and help keep educational meetings going, **Please** go to the last page of this newsletter, print, fill out the invoice, attach a check and mail to SFEA at: 929 Newhall St., Costa Mesa, CA. 92627

<<<<<<<<< See announcement to left

(Those of you who paid for more than one year sponsorship may ignore this announcement.)

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There is always room for one  
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Invoice on last page of  
Newsletter.





offers

## Education, Training, & “Street Smarts”

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[Click to learn about educational opportunities](#)

## MFASC Continuing Education Seminars

**Steven's Steakhouse**

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

**3:00-5:00**

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

**For MFASC meeting information call:**

**MFASC Headquarters—**

**Veronica Anderhalt - (818) 238-9590**



## Help Secure the Future!

Industry Leaders Supporting  
NASF Advocacy Programs

Join TODAY

For details [NASF.org/contribute](http://NASF.org/contribute)



SAVE THE DATE FOR THE 40th ANNUAL MFASC METAL FINISHING CONFERENCE.

September 20, 2022 4:00 - 8:00 pm

**ADDRESS**

901 Via San Clemente, Montebello, CA 90640, USA

[View map](#)

**PHONE**

877-238-9490

**EMAIL**

[admin@mfaca.org](mailto:admin@mfaca.org)

**WEBSITE**

<http://www.quietcannon.com/>



## Training & Education Update

**Home-Study Program**

[Click Here for more information](#)

**In person Classes**

**WebBased Courses**



**MFA**  
METAL FINISHING ASSOCIATION  
OF CALIFORNIA MFASC | MFANC



**SAVE THE DATE!**  
**MFASC ANNUAL FALL OUTING**

Hyatt Regency Huntington Beach  
Resort and Spa | October 7 - 9, 2022





## California Manufacturing Technology Consulting

A non profit dedicated to improving the manufacturing community in souther California [www.cmtc.com](http://www.cmtc.com)

Check out how the CMTC programs and find out how they can help your business:

[Made in CA Program](#)

[CMA Program](#)

[E3 Program](#)



## 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: LIMITED

SPACE available **Monday, September 12th, 2022**

EMAIL FOR INFORMATION [info@calrma.com](mailto:info@calrma.com)

## Want Ads

***Anyone wishing to post a want ad, please email me all pertinent information.***

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

**Need a Job? Have a position to fill?  
Need to sell or buy used equipment?**

**Place your ad here!**

## SFEA Officers & Board Members

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Optiforms

**909-263-2585**

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

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**714-969-1413**

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### Board of Managers

**Ron Barauskas**

Retired

**(714) 392-4138**

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

**Paul Petruna**

Sirco Industrial Inc.

**(714) 969-1413**

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

## LINKS

### *Organizations and Publications*

[www.nasf.org](http://www.nasf.org)  
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## Check out the SFEA Web Site!!!



[www.sfeasc.org](http://www.sfeasc.org)

[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.*

**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.**



<http://www.pfonline.com>

An article published in the  
Products Finishing Magazine.

## Automobile Electrification and Heat Exchange

BILL MORTON, CIRCLE-PROSCO INC.

Chemical cleaning and passivation improves battery cooling and reliability in new energy vehicles.

Electric and other new energy vehicles (NEVs) are commanding an increasing proportion of the research and development and manufacturing investment in the automotive industry. With this new attention comes new requirements for Tier 1 Component Manufacturers. NEVs require a sophisticated cooling system of high-performance aluminum heat exchangers due to a different set of risks from the battery pack. At the same time, automotive OEMs are imposing new specifications for durability and longer service lifetimes.

In an internal combustion engine (ICE) vehicle, risk of failure mainly comes from the fuel tank, fuel plumbing, and engine. In the new energy vehicle, the highest risk comes from the possibility of cascading chemical reactions within overheated battery cells. Vehicle testing and field reports have found instances of cooling failure when heat exchanger channels are plugged into the radiator water-glycol loop, degrading system efficiency.

In vehicles with a large battery cell, temperature maintenance is achieved with a variety of techniques, including sophisticated temperature monitoring and energy usage software systems, which rely on functioning cooling hardware. Chief among these is the water-glycol cooling loop using the radiator, but a secondary method is use of the refrigerant loop used for cabin cooling. A new cooling plate is employed under the battery cells. The heat dissipating heat exchangers are similar in design to current ICE models and typically manufactured with the same production methods.

[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

## Intro to the AS9100 Standard

If you're a small or medium-sized manufacturer (SMM) working in the aviation, aerospace, or defense industry — or if you're planning on breaking into this sector — it can be difficult to achieve a comprehensive understanding of the regulatory standards that govern this niche.

This is especially true for the AS9100 Standard, a particularly stringent certification that, while not required for all SMMs in the space, can provide significant advantages to industry players.

This blog will serve as a general overview of AS9100. We'll explore the standard, the quality management system (QMS) manufacturers will have to build, the benefits of certification, basic steps in the certification process, and more.

### What is AS9100?

So, what is AS9100? [AS9100](#) — also known as AS9100D, the most recent update to AS9100 from 2016 — is a unique, rigorous set of standards that govern some aerospace, aviation, and defense manufacturers.

The International Aerospace Quality Group (IAQG), along with industry representatives from around the world, developed the standard for a variety of reasons:

- To standardize quality and QMSs in the industry
- To encourage safe development, production, and sale of parts
- To improve overall quality and optimize manufacturers' costs

AS9100 expands upon the principles of another, more general certification — [ISO9001](#).

[Click here to read full article](#)



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