



Surface Finishers Educational Association

929 Newhall St., Costa Mesa, CA 92627

Good Summertime to you all;

Well it's mid summer and before you know it, September will be knocking at our doors.

Barbara Kanegsberg (Program Chair) along with the rest of the SFEA board members, are hard at work lining up the 2018/2019 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. (Speakers get their dinner comped !!!)***

See you in September!!!

HURRY!! HURRY!! HURRY!!

Put in for your 2018/2019

Interactive SFEA Vendor & Sponsor Ad for both the Newsletter and the Website

The cost is just \$100.00 for the year.

Ads run from Sept 2018 through Aug 2019

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

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2018/2019 CALENDAR OF EVENTS

Upcoming SFEA Educational Dinner/Meetings

Speaker

Topic

September 13	Geoff Blake	"The Bandini is About to Hit the Big-Ass Fan"
October 11	Paul Petruna	"How to Grow your Company"
November 8	Ron Barauskas	"Uncommon Gold Plating Processes"
December 13		
January 10		
February 14		
March 14		
April 11		
May 9		

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There is always room for one more. Get your ad into the SFEA Newsletter and Web Page. Invoice on last page of Newsletter.

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**Check out the
SFEA Web Site!!!**



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 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.

**MFASC Continuing Education
Seminars**

Steven's Steakhouse

**5332 E. Stevens Place, Commerce, CA
3:00-5:00**

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

**38TH ANNUAL METAL FINISHING
CONFERENCE**

BOTH SHOWS IN THE SAME WEEK!

 MFASC METAL FINISHING ASSOCIATION OF SOUTHERN CALIFORNIA, INC.	 MFANC METAL FINISHING ASSOCIATION OF NORTHERN CALIFORNIA, INC.
TUESDAY SEPTEMBER 25, 2018 4:00PM - 8:00PM QUIET CANNON 981 H. Min San Ct Northridge, CA 91340	THURSDAY SEPTEMBER 27, 2018 4:00PM - 8:00PM NAPREDAK HALL 770 Mountain Expressway San Jose, CA 95131

[Register Here](#)

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



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Training & Education Update

Web Based Courses

Airline & Aerospace Finishing Parts 1 & 2

August 7, 8, 14, 15, 21, 22, 28, 29
October 2, 3, 9, 10, 16, 17, 23, 24

Plating Essentials

Registration Deadline: August 20th

September 4, 5, 11, 12, 18, 19, 25, 26

Corrosion & Salt Spray

Registration Deadline: October 22

Six Two-hour Sessions

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

[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](#)

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[Electroplating & Surface Finishing](#)

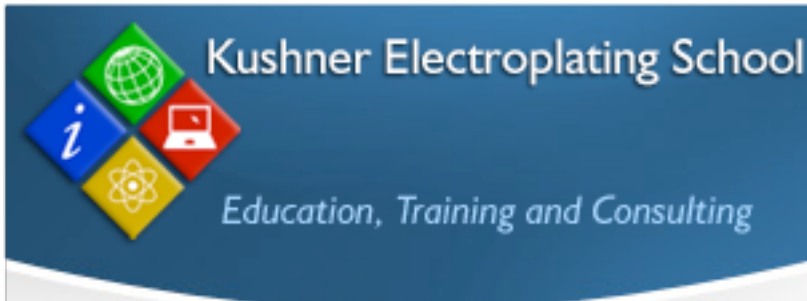
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Electroplating Know-How Basics Online

Electroplating Know-How Basics Online is the same comprehensive modern electroplating training program as our famous two day seminar, but available online for your convenience. Click here for [More Information...](#)



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, September 10, 2018 8am-5pm Cal State Fullerton

\$275 Includes 8 hour class and Compliance Book

Want Ads



Gold Tech Industries, a medium sized plating facility in Tempe Arizona, currently has full time openings for a

Process Engineer and a Quote Estimator. For more information about our company see our website at www.goldtechind.com.

If interested, please send resumes to careers@goldtechind.com.

Anyone wishing to post a want ad, please email me all pertinent information.
kpetruna@gmail.com

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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 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 and I'll make sure they get all the mailings.



<http://www.pfonline.com>

An article published in the
Products Finishing Magazine.

Stress in Electroless Nickel Coatings

Many factors can impact internal stress, but tests show bath age and deposition rate are the biggest influencers.

Article Post: 7/1/2018

IULIA BEJAN, ATOTECH DEUTSCHLAND GMBH

Electroless nickel coatings are widely used because of their uniform thickness, corrosion resistance, hardness, wear resistance and magnetic response. Some of these properties are affected by internal stress in the coating, however. Very often, internal stress can be the most significant criterion for determining the suitability of an EN process for a specific application. Here, we will discuss the factors that impact this stress.

Internal stress consists of an intrinsic component resulting from the composition and age level of the plating bath, and a thermal component produced by the difference in the thermal expansion coefficient between the EN coating and the substrate. Aluminum, for example, registers strong compressive stress values due to the high shrinkage that occurs when it cools from the working temperature of the plating process to room temperature.¹ Internal stress can be of a tensile or compressive nature. Under tensile stress, the coating tends to reduce in volume and shrink (contraction state); under compressive stress, it tends to expand by increasing in volume (expansive state).

Intrinsic stress is produced by any deviation from the perfect crystalline order of a solid.² Deviations on the atomic scale consist of lattice mismatch due to the difference between the substrate and the deposit's crystalline structure, or due to inclusion of foreign atoms (interstitials) or vacancies. At the mesoscopic level, dislocations and grain boundaries are the most usual deviations. At the microscopic level, grain boundaries of coarse crystalline materials can occur. At the macroscopic level, all mechanical forces applied to a piece and differences in the coefficient of thermal expansion can create stress. Vectorial addition of all forces, from atomic to macroscopic, produces the measured stress of a coating.

[Click here to read full article](#)



California Manufacturing Technology Consulting

A non profit dedicated to improving the manufacturing
community in southern California

The Impact of Manufacturing Day— and How to Get Involved

Posted by [Steven Brand](#) on Jun 26, 2018 12:17:35 PM

Dark, dirty, dangerous. Unfortunately, this outdated perception of manufacturing persists to this day, and it can keep away new talent. By 2025, nearly [25 percent of the United States](#) population is expected to be aged 60 or older, meaning many manufacturing workers will be leaving the factory floor. This makes attracting the next generation of workers critical to ensuring the industry remains vibrant. With this thought in mind, the National Association of Manufacturers and the Manufacturing Institute developed **National Manufacturing Day**.

It all began in 2012, with the goal of inspiring more people to pursue manufacturing careers. Designed to correct the notion that manufacturing involved only repetitive, unskilled tasks in dark, dirty, and dangerous places, Manufacturing Day (MFG DAY) shows up-and-comers that the industry employs highly-skilled individuals while offering some of the most exciting, innovative work environments around.

Shifting Public Perception

Is it working? We can answer with a resounding yes! Deloitte, an MFG DAY sponsor since 2015, has been tracking reception toward the event, and the [results](#) are very encouraging. Focusing on students who have engaged in MFG DAY, the numbers are overwhelmingly positive:

- 88% found MFG DAY events interesting and engaging
- 89% became more aware of manufacturing jobs in their community
- 87% were convinced that manufacturing jobs were safe, clean, and high tech
- 84% believed that manufacturing jobs offered good pay
- 84% thought that manufacturing careers could be exciting and rewarding
- 71% planned to tell friends, family, or colleagues about careers in manufacturing

[Click here to read full article](#)

What You Missed



Speaker: Doug Sear, Optiforms

Doug has been with Optiforms for over 20 years. Optiforms built and has operated its first vacuum chamber in the late '80's. Today we have 6 vacuum chambers operational. Over the years I have developed and built many of the vacuum coating chambers and peripheral equipment associated with vacuum deposition.



Topic: “*The Mysterious World of Vacuum and Vacuum Deposition*”

Doug will be speaking on the history of vacuum and how it is used in alternative surface finishing processes.

**The SFEA Election of officers was held at the May Meeting.
After the ballots were counted Your 2018/2019 Officers are:**

Doug Sear, President
Kathy Petruna, Vice President
Bonnie Copeland, Secretary/Treasurer
Taoward Lee, Sergeant at Arm



Congratulations to our 50/50 winner!
Doug Osadchuk from
Wintersun Chemical

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





Surface Finishers Educational Association

929 Newhal St., Costa Mesa, CA 92627

DATE: / /2018

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2018/2019

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Questions regarding this invoice, contact

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