

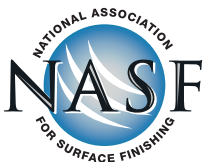
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## **SHOW DIRECTORY & CONFERENCE SCHEDULE**



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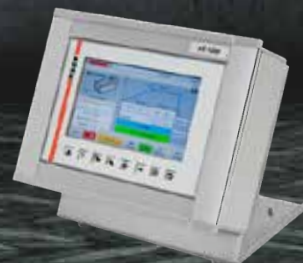
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# Welcome to SUR/FIN® 2023!

We are delighted you have chosen to join us for SUR/FIN 2023 in Cleveland, Ohio. Here, you can catch up on the latest news, science and technology while connecting with friends, new and old.

With over 180 exhibitors on the show floor and a tremendous technical conference (72 individual presentations) on Tuesday and Wednesday, there is so much to learn.

Tuesday features technical conference sessions, the regulatory and environmental update (open to all attendees) and the evening show floor reception. Wednesday is packed with a Plenary Lecture by Sharon Mill from the Space Environments group at NASA Glenn Research Center followed by one of the Bootcamps; plus the conference sessions and the Women's Networking Event. On Thursday the Show Floor Stage line-up includes Jeff Szotek of Stellantis who will deliver the Keynote on the significant technological evolution of nickel-chromium electroplating followed by the NASF Award Ceremony recognizing excellence and the Top Shop Award presentations. The educational content continues on the Show Stage with day two of the Bootcamp and the Blum Lecturer, Tim Hall, will share how he was inspired by his mentor, interesting discoveries throughout his years in the industry and insights into how Europe is taking the lead in training the next generation of surface finishers. Afterward, join everyone at the Closing Respection honoring Young Professionals to find a mentor or become one.

After the floor reception Tuesday evening, The Ohio Association of Metal Finishers Chapter Industry Night features live music and a cocktail party along with a self-guided tour of the Mather Steamship. All profits from Industry Night will be donated to NASF 1000.

The SUR/FIN Steering Committee and the TAC have worked tirelessly to bring you this event. We appreciate your continued loyalty and support of SUR/FIN and NASF.

Thank you for being here. We look forward to connecting or reconnecting with you this week.

**Ben Stratton**

SUR/FIN Steering Committee Chair

## SUR/FIN Registration Desk Hours

**Monday, June 5**  
11:00 AM - 4:30 PM

**Tuesday, June 6**  
7:30 AM - 6:30 PM

**Wednesday, June 7**  
8:00 AM - 4:30 PM

**Thursday, June 8**  
7:30 AM - 3:00 PM

## Show Floor Hours:

**Tuesday, June 7**  
5:00 PM – 7:00 PM

**Wednesday, June 8**  
10:00 AM – 5:00 PM

**Thursday, June 9**  
9:00 AM – 3:00 PM

## Wifi

Complimentary Wifi is available throughout the SUR/FIN common areas and meeting rooms.

**Look for: 2023SURFIN**  
**Password: SurFin2023**

**Direct Access to Meeting Details** Scan the QR codes for instant access to information from the NASF website.



**Detailed  
Agenda**



**Join NASF**



**Exhibitor  
Directory**

# SCHEDULE AT A GLANCE

## MONDAY, JUNE 5

8:00 AM - 4:30 PM	Electroplating & Surface Finishing Course (CEF)   Room 1
8:00 AM - 4:30 PM	Aluminum Finishing Course   Room 6
11:00 AM - 4:30 PM	Registration   Convention Center Looby

## TUESDAY, JUNE 6

7:30 AM - 6:30 PM	Registration   Convention Center Looby
8:00 AM - 4:30 PM	Electroplating & Surface Finishing Course (CEF)   Room 1
8:00 AM - 4:30 PM	Aluminum Finishing Course   Room 6
8:00 AM - 12:00 PM	Technical Conference Sessions   Rooms 3, 4 & 5
12:00 PM - 1:30 PM	Order of Past Presidents Lunch   Invitation Only
1:30 PM - 3:00 PM	Technical Conference Sessions   Rooms 3, 4 & 5
3:15 PM - 5:15 PM	Regulatory & Environmental Update   Room 4
5:00 PM - 7:00 PM	Welcome Reception Sponsored by American Plating Power and Palm Commodities International   Show Floor
7:00 PM - 9:00 PM	Industry Night Hosted by OAMF

## WEDNESDAY, JUNE 7

8:00 AM - 4:30 PM	Electroplating & Surface Finishing Course (CEF)   Room 1
8:00 AM - 4:30 PM	Aluminum Finishing Course   Room 6
8:00 AM - 12:00 PM	Technical Conference Sessions   Rooms 3, 4 & 5
8:00 AM - 6:30 PM	Registration   Convention Center Looby
10:00 AM - 11:00 AM	NASF Suppliers Meeting   Room 8
10:10 AM - 11:00 AM	PLENARY SPEAKER Sharon Miller, Sponsored by Products Finishing
10:00 AM - 5:00 PM	Show Floor Open
11:00 AM - 12:00 PM	Surface Finishing Boot Camp I   Show Floor Stage
1:30 PM - 2:30 PM	NASF Job Shop Meeting   Room 8
1:30 PM - 5:00 PM	Technical Conference Sessions   Rooms 3, 4 & 5



## SCHEDULE AT A GLANCE

2:30 PM - 3:30 PM

NASF Chapters Meeting | Room 8

4:00 PM - 5:00 PM

Women's Networking Event Sponsored by Univertical | NASF Booth on the Show Floor

### THURSDAY, JUNE 8

7:30 AM - 3:00 PM

Registration | Convention Center Looby

8:00 AM - 4:30 PM

Electroplating & Surface Finishing Course (CEF) | Room 1

8:00 AM - 4:30 PM

Aluminum Finishing Course | Room 6

9:10 AM - 10:00 AM

KEYNOTE SPEAKER Jeff Szotek, Sponsored by Atotech | Show Floor Stage

9:00 AM - 3:00 PM

Show Floor Open

10:00 AM - 10:10 AM

NASF Annual Members Meeting | Show Floor Stage

10:10 AM - 11:00 AM

NASF & Top Shop Awards Ceremony Sponsored by  
Products Finishing | Show Floor Stage

11:00 AM - 12:00 PM

Surface Finishing Boot Camp II | Show Floor Stage

11:00 AM - 12:00 PM

NASF Technology Advisory Committee Meeting | Room 8

1:00 PM - 2:00 PM

Blum Lecture, Tim Hall | Show Floor Stage

2:00 PM - 3:00 PM

Closing Reception Honoring Young Professionals,  
Sponsored by Pavco & Microfinish | Show Floor

3:00 PM - 4:00 PM

NASF SUR/FIN Steering Committee Meeting | Room 8

### FRIDAY, JUNE 9

8:00 AM - 10:30 AM

Electroplating & Surface Finishing Course (CEF) | Room 1

8:00 AM - 10:30 AM

Aluminum Finishing Course | Room 6

### Show Floor Key

- NASF Committee meeting
- Open meeting
- Requires separate registration
- Technical Conference Program
- By invitation only
- Complimentary With Exhibit Hall Pass

### SUR/FIN Registration Desk Hours

#### Monday, June 5

11:00 AM - 4:30 PM

#### Tuesday, June 6

7:30 AM - 6:30 PM

#### Wednesday, June 7

8:00 AM - 4:30 PM

#### Thursday, June 8

7:30 AM - 3:00 PM

GENERAL

# NAR

NORTH AMERICAN  
RECTIFIERS

BOOTH  
529

## LEGENDARY

# RELIABILITY



15V-10,000A  
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- FILTERED & NON-FILTERED
- NORTH AMERICAN MADE

### DSP SWITCH MODE

- 25A TO 100,000A WITH REVERSING
- RIPPLE <1%
- UP TO 95% EFFICIENT - UP TO .99 POWER FACTOR
- AIR & WATER COOLED
- ETHERNET/IP, MODBUS, PROFIBUS, ANALOG I/O AND MORE
- 40+ DIAGNOSTIC FEEDBACK MESSAGES
- CONTROL ONE OR MULTIPLE RECTIFIERS FROM A SINGLE REMOTE



AIR COOLED  
SCR RECTIFIER

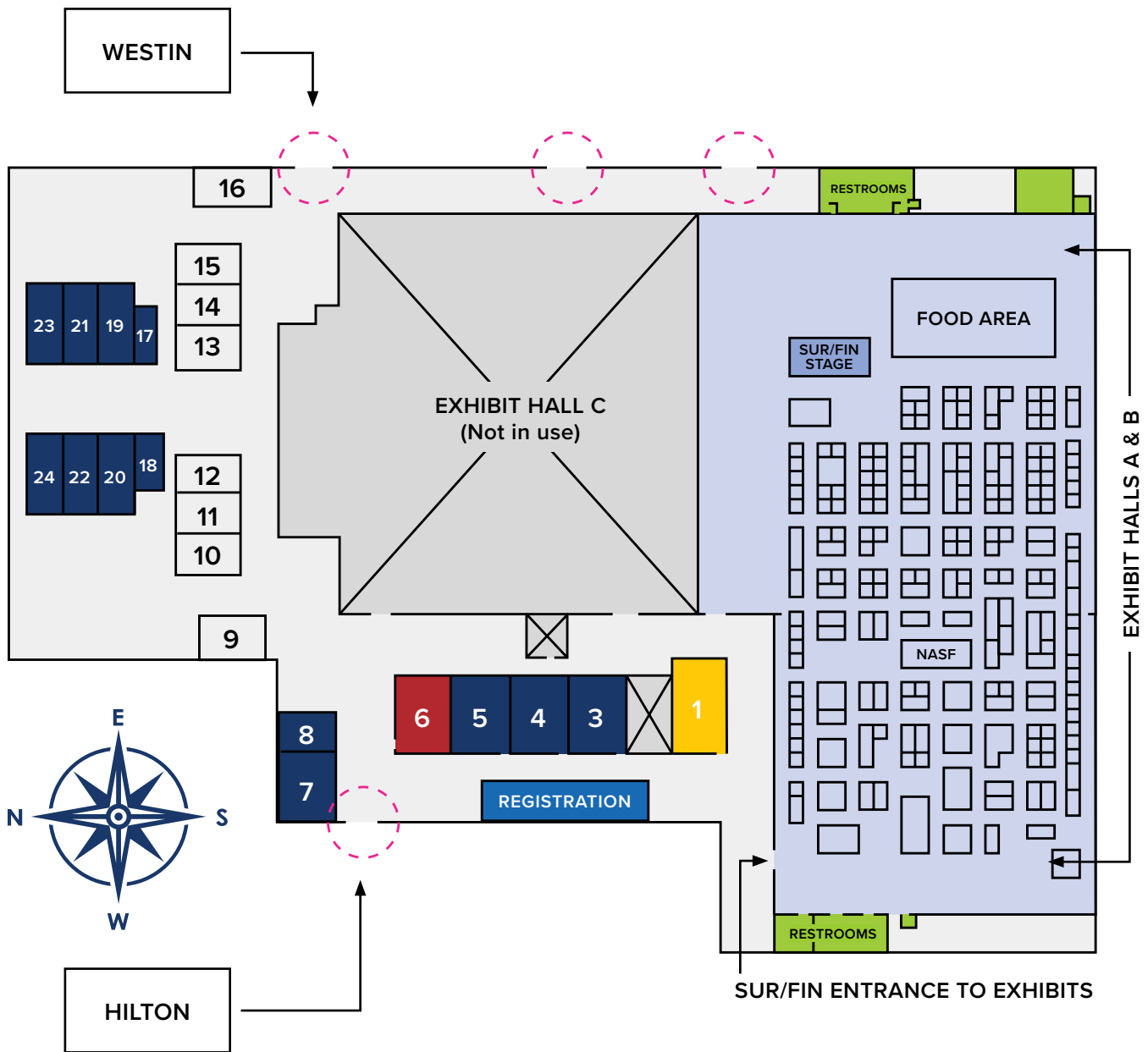


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# HUNTINGTON CONVENTION CENTER MAP FOR SUR/FIN



## Map Key

- |  |  |
|--|--|
| <span style="display: inline-block; width: 15px; height: 15px; background-color: red; margin-right: 5px;"></span> Aluminum Finishing Course          | <span style="display: inline-block; width: 15px; height: 15px; background-color: blue; margin-right: 5px;"></span> Registration              |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: darkblue; margin-right: 5px;"></span> Technical Conference Sessions | <span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; margin-right: 5px;"></span> SUR/FIN Stage        |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; margin-right: 5px;"></span> CEF Course                      | <span style="display: inline-block; width: 15px; height: 15px; border: 1px dashed pink; margin-right: 5px;"></span> Convention Center Access |
| <span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; margin-right: 5px;"></span> SUR/FIN Exhibits             | <span style="display: inline-block; width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> Restrooms                |

**WEDNESDAY, JUNE 7****10:10 AM – PLENARY SPEAKER:  
COATINGS AND SURFACE TREATMENTS  
FOR SPACE APPLICATIONS**

**Sharon Miller**, Space Environments Group  
at NASA Glenn Research Center

*Sponsored by Products Finishing*

Sharon Miller is a senior research engineer at NASA Glenn Research Center. She has published over 120 papers and holds 7 patents. Her area of research specializes in space environment effects on spacecraft materials. She has been involved in the development of coatings and surface modification techniques to make materials more durable to space and earth environments.

**11:00 AM – BOOTCAMP DAY I**

The Electroplater's Boot Camp is a free educational session that provides an introduction to various electroplating processes. This platform is designed to educate employees and personnel in the metal finishing industry by providing comprehensive exposure to the general operation of metal finishing. Topics range from an overview of electroplating, pretreatment, functional and decorative finishing.

**11:00 – What is Electroplating** (PAVCO)

**11:20 – Cleaning and Pickling** (ATOTECH)

**11:40 – Zinc and Zinc Alloys** (MEIS)

**THURSDAY, JUNE 8****9:10 AM – KEYNOTE SPEAKER**

**Jeff Szotek**, Sr. Technical Specialist, Stellantis

*Sponsored by Atotech*

Jeff Szotek is a Stellantis Senior Technical Specialist in the Materials and Sustainability Engineering group responsible for Decorative Metallic Finishes and is the Global Lead for

Decorative Chrome Electroplated Finishes. He developed products for pretreatment systems, electroless nickel and alkaline non-cyanide copper electroplating before moving into technical management and marketing positions.

**10:00 AM – NASF ANNUAL  
MEMBERS MEETING**

Join the NASF Leadership as we highlight our year of accomplishments during our Members Meeting.

**10:10 AM – NASF AWARD CEREMONY**

*Sponsored by Products Finishing*

Each year, NASF recognizes excellence in our industry by conveying of awards to highly deserving individuals. Come help the NASF pay tribute to these individuals for their accomplishments and contributions to our industry.

**10:30 AM – TOP SHOP AWARD**  
*Sponsored by Products Finishing*

What are the traits of a Top Shop? Following the NASF Awards ceremony, Products Finishing, the finishing industry's premier media brand, will present insights into its Top Shops Benchmarking Program and recognize the qualifying shops of 2023. The first place ranking Top Shop in the Electroplating & Anodizing category will be honored on the SUR/FIN Stage followed by a Q&A discussion. Discover how PF's Top Shops Benchmarking Program can help you better understand your overall performance in the marketplace and identify areas of opportunity!

**11:00 AM – BOOTCAMP DAY II**

The Electroplater's Boot Camp is a free educational session that provides an introduction to various electroplating processes. This platform is designed to educate employees and personnel in the metal finishing



industry by providing comprehensive exposure to the general operation of metal finishing. Topics range from an overview of electroplating, pretreatment, functional and decorative finishing.

**11:00 – Equipment for Metal Finishing**  
(FISHER TECHNOLOGY)

**11:20 – Copper/Nickel/Chromium** (DuBOIS)

**11:40 – Electroless Nickel** (METALCHEM)

### 1:00 PM – BLUM LECTURER

**Timothy Hall**, Ph.D., Faraday Technology, Inc.

This lecture will discuss my history (from undergraduate to present), my mentors, and dwell into some reoccurring themes from my work in electrochemical technologies, including plating and surface finishing. Firstly, we will discuss some of my early work at West Virginia University then my graduate work

at the University of Notre Dame. Next, we explore some of my ongoing work, at Faraday Technology, and places I think we can go by understanding some fundamental aspects, such as the boundary layer, and resulting effects of electrochemical processes. Lastly, we will look forward to new opportunities for the surface finishing community and discuss our mission to meet these needs.

### 2:00 PM – CLOSING RECEPTION HONORING YOUNG PROFESSIONALS

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Young professionals are the pipeline of our future leaders and a source of innovation. Continue your networking opportunities by attending the Young Professionals and Closing Reception and toasting to another successful SUR/FIN.

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# LIST OF EXHIBITORS (A-M)

349	Alar Water Treatment LLC
730	Aldonex Inc.
716	Aluminum Anodizers Council
356	Amariko Inc.
121	American CRS Equipment
421	American Plating Power, LLC
238	Arkema Inc.
550	Artek Surfin Chemicals Ltd.
242	Assured Testing Services
107	Atotech USA, LLC
519	Aucos AG
657	Axine Water Technologies
130	Baker Technology Associates Inc.
154	Becker Engineered Systems
552	Birchwood Technologies
450	Bluestone Metals & Chemicals
627	Bowman Analytics
605	Bozkurt Plant Engineering
344	Brawn Mixer
723	Brenntag North America
521	BroCo Products Inc.
143	Calorplast, USA, LLC
621	Caplugs, Inc.
623	CECO Environmental Corporation
452	CFCM Magazine
551	Clean Harbors
256	Cold Shot Chillers
333	Columbia Chemical Corporation
664	Compex Software
132	Cornerstone Systems Inc.

315	Corrotec Incorporated
120	Crossair, LLC
351	CTO Enterprises
157	DAES Distribution
665	Dangler Guys LLC, The
318	De Nora Tech
414	Dipsol of America, Inc.
648	Druseidt – Intercon USA Inc.
412	DuBois Chemicals
455	DuPont
643	Dynamix Incorporated
308	Dynapower Company
613	Eagle Engineering Ltd.
355	Eastmen Chemicals
560	Endura Corporation
338	Enviro Solutions
365	EPi Electrochemical Products Inc.
461	EPLAS Electroplating Plants
129	EPSI - Engineered Products & Services, Inc.
733	ES3
748	Evoqua Water Technologies
539	Fab-Seal Industrial Liners Inc.
445	Fang Phos, Inc.
407	Fanta Equipment Co.
127	Filter Pump Industries
433	Fischer Technology
645	Flux Pumps Corporation
749	Gannon & Scott
337	GF Piping Systems
536	Gilbert & Jones Co., Inc.
513	GOAD Company

607	GPR Wet Process Group
350	Grandis Titanium
128	Hanna Instruments
126	Hardwood Line Manufacturing
741	Harrington Industrial Plastics
656	Hartzell Air Movement
213	Haviland Products Company
717	HeaterTek
449	Hendor - PE Inc.
527	Hubbard- Hall
251	Hung Li (Hurmig Yieh) Machinery Industrial Co. Ltd.
336	Hunter Chemical
737	IEN Finishing World
116	Indelco Plastics
639	IPEX USA LLC
705	Iwaki America
631	J. Mark Systems, Inc.
543	Jasco Chemical Inc.
357	Jim Toth Solutions, LLC//Sager + Mack GmbH
122	JPS Technologies
401	KCH Engineered Systems
651	Keene Village Plastics
139	Kocour Corporation
422	Kontek Process Water Management
509	KraftPowercon
313	Lanco LLC
711	Leister Technologies
544	LS Industries
501	Luster-On Products, Inc.
257	Lutz Pumps, Inc.
153	M.W. Watermark

# SHOW FLOOR MAP

## Map Key

- Alliance Partner
- Premier Partner
- Executive Partner
- Media Partner
- NASF Member

### Exhibitors Hours:

**Tuesday, June 7**  
5:00 PM – 7:00 PM

**Wednesday, June 8**  
10:00 AM – 5:00 PM

**Thursday, June 9**  
9:00 AM – 3:00 PM

Scan the QR code  
for the Exhibitor  
Directory



Restrooms

Food Area

SUR/FIN STAGE

← Entrance

Restrooms

GENERAL



<b>301</b>	<b>MacDermid Enthone</b>	<b>644</b>	Precision Process Inc.	<b>615</b>	Stenner Pump Company
<b>649</b>	Magneto Special Anodes an Evoqua Brand	<b>343</b>	PriceWalgren & Jessup	<b>731</b>	Sun-Glo Machining and Metal Finishing
<b>148</b>	March Pump	<b>332</b>	<b>Process Electronics Corporation</b>	<b>119</b>	SurTec, Inc.
<b>661</b>	MARPOL Parlatıcı San. ve Tic. A.S.	<b>101</b>	<b>Process Technology</b>	<b>221</b>	Technic Inc.
<b>714</b>	McCol Metals	<b>114</b>	Procom LLC	<b>454</b>	Tecnoplast USA LLC
<b>650</b>	Merge Chemistry	<b>140</b>	Products Finishing Magazine	<b>701</b>	Therma-Tron-X, Inc.
<b>108</b>	Metal Chem Inc.	<b>555</b>	Progalvano Srl	<b>118</b>	Three D Metals, Inc
<b>145</b>	Metalor Technologies USA	<b>738</b>	Pro-MEC Engineering Services Inc.	<b>209</b>	TITAN Metal Fabricators/RighTech Fabrication/Optimum Anode Technologies
<b>102</b>	Met-Chem, Inc.	<b>248</b>	ProPlate	<b>727</b>	Tolber Division
<b>725</b>	Metrohm USA, Inc.	<b>339</b>	Pyromet Inc.	<b>538</b>	Tri-Mer Corporation
<b>719</b>	Metropolitan Alloys Corp.	<b>151</b>	QML, Inc.	<b>561</b>	Trionetics Inc.
<b>149</b>	Micromatter Technologies Inc. & Calmetrics Inc.	<b>715</b>	Radom Corp.	<b>112</b>	TrueLogic Company
<b>617</b>	Midwest Air Products Co. Inc.	<b>703</b>	REL, Inc.	<b>706</b>	Trutegra
<b>323</b>	Moonstone Enterprises Inc	<b>548</b>	Reldan	<b>236</b>	UAS Automation Incorporated
<b>327</b>	National Association of Surface Finishing	<b>465</b>	Reliable Silver Corporation	<b>437</b>	<b>Univertical LLC</b>
<b>638</b>	NewAct Inc.	<b>713</b>	Republic Metals	<b>348</b>	US Ecology, a Republic Services company
<b>549</b>	Niche FPP	<b>229</b>	ResinTech, Inc.	<b>507</b>	Uyemura International Corporation
<b>529</b>	North American Rectifiers	<b>743</b>	Ritmo America LLC	<b>712</b>	Vanaire
<b>156</b>	Oakland Products, Inc.	<b>245</b>	Ryotronics Inc.	<b>462</b>	Viron International Corporation
<b>620</b>	Okuno International Corporation	<b>249</b>	SanRex Corporation	<b>637</b>	Warco Inc.
<b>353</b>	Ovasco Industries	<b>361</b>	Sayron Elektronik Enerji San. ve Tic. A.S.	<b>564</b>	Water & Wastewater Equipment Company
<b>409</b>	<b>Palm Commodities</b>	<b>239</b>	Scientific Control Laboratories, Inc.	<b>460</b>	Wegener Welding, LLC
<b>556</b>	Parker Boiler Co.	<b>628</b>	ScrubAir Systems, Inc.	<b>721</b>	Witt Lining Systems
<b>363</b>	Parker Trutec	<b>113</b>	SERFILCO, Ltd.	<b>137</b>	WMV Dip Spin Inc.
<b>321</b>	<b>Pavco Inc.</b>	<b>237</b>	<b>SIDASA Engineering</b>	<b>352</b>	Workflo
<b>443, 542</b>	Peerless Custom Rack Co. Ltd.	<b>438</b>	SIFCO ASC	<b>720</b>	Wuhan Youngde Chemical Co., Ltd.
<b>250</b>	Performance Review Institute - PRI	<b>728</b>	Sims Lifecycle Services, Precious Metals Group	<b>316</b>	Yuken America, Inc.
<b>554</b>	PHTPlus by TrinSoft	<b>545</b>	SIRCO Industrial Inc.		
<b>632</b>	Plating International Inc.	<b>243</b>	Spray Tech Junair		
<b>136</b>	Precious Metal Sales Inc.	<b>563</b>	Steelhead Technologies Inc		

# SHOW FLOOR MAP (Same map as page 13)

## Map Key

- Alliance Partner
- Premier Partner
- Executive Partner
- Media Partner
- NASF Member

### Exhibitors Hours:

Tuesday, June 7  
5:00 PM – 7:00 PM

Wednesday, June 8  
10:00 AM – 5:00 PM

Thursday, June 9  
9:00 AM – 3:00 PM

Scan the QR code  
for the Exhibitor  
Directory



SUR/FIN STAGE

Food Area



← Entrance

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## CONFERENCE SESSIONS

Every year, the AESF Foundation funds university professors so they may hire students to conduct research on projects directly related to the surface finishing industry. Presentations funded by the AESF Foundation are noted with an asterisk (\*)

TUESDAY MORNING, JUNE 6			
TIME	<b>SESSION 1</b> <b>Light Metals Processing I</b> <i>Room 3</i> <b>Session Chairs</b> Rob Pawson & Bill Neiolo	<b>SESSION 2</b> <b>Aerospace &amp; Defense I</b> <i>Room 4</i> <b>Session Chairs</b> Wayne Schuette & Brad Wiley	<b>SESSION 3</b> <b>Automation &amp; Process Control I</b> <i>Room 5</i> <b>Session Chairs</b> Dev Massimi & George Milad
8:30 AM - 9:00 AM	<b>ANODIZING ADDITIVES – A MULTITUDE OF BENEFITS</b> Sascha Wegner <i>MacDermid Enthone</i>	<b>CHALLENGES IN OPERATING A DOD ELECTROPLATING SHOP</b> Brian Gibson & Howard Whang <i>NAVAIR - Naval Air Systems Command</i>	<b>BEST PRACTICES IN PREPARING PROCESS CONTROL SAMPLES FOR PLATING</b> Clint Williams <i>Omega Research Inc.</i>
9:00 AM - 9:30 AM	<b>DIRECT ELECTRODEPOSITION OF CORROSION RESISTANT COATINGS ONTO ALUMINUM AFTER ONE STEP SURFACE PRETREATMENT</b> Rajeswaran Radhakrishnan <i>Faraday Technology, Inc.</i>	<b>BEST PRACTICES FOR POST TREATMENT OF ZINC AND ZINC ALLOYS TO ACHIEVE MAXIMUM PERFORMANCE</b> Tony Oriti <i>MacDermid Enthone Industrial Solutions</i>	<b>THE ECONOMICS OF PLANT SOFTWARE: CAN MY SHOP BE MORE PROFITABLE WITH BETTER SYSTEMS?</b> Jeff Halonen <i>Steelhead Technologies</i>
9:30 AM - 10:00 AM	<b>ANTIMICROBIAL ANODIZED ALUMINUM</b> Kevin O'Connor <i>A3 Surfaces</i>	<b>VALIDATION OF LOW HYDROGEN EMBRITTLEMENT (LHE) ALKALINE ZINC-NIKEL ELECTROPLATING FOR STEEL AND ALUMINUM ELECTRICAL CONNECTORS, ACCESSORIES AND COMPONENTS</b> Beth Randolph <i>ES3</i>	<b>IMPACT OF TRANSFORMATION TECHNOLOGIES 4.0 IN THE FINISHING INDUSTRY</b> Pedro Castillo <i>Therma-Tron-X, Inc.</i>
10:00 AM - 10:30 AM	<b>THE SCIENCE OF CLEANING AND RINSING ALUMINUM</b> Mike Valenti <i>Hubbard-Hall</i>	<b>ELECTROLYTIC CONVERSION COATINGS</b> Alexander Westbrook <i>NAWCAD</i>	<b>HIGH TOLERANCE PROCESS CONTROL FOR BUSINESS-CRITICAL SURFACE FINISHING</b> Josh Loukus <i>REL Inc.</i>
10:30 AM - 11:00 AM	<b>ENVIRONMENTALLY FRIENDLY TECHNOLOGY IN SURFACE TREATMENT</b> Kenshi Quist <i>Okuno International Corporation</i>	<b>CORROSION RESISTANT BOEGEL AS A NON-CHROME CORROSION INHIBITED SURFACE PRETREATMENT</b> Casey Jones <i>ES3</i>	<b>HOW A MICROGRID, BATTERY STORAGE OR BEHIND THE METER POWER CONVERSION SYSTEM CAN IMPROVE YOUR PRODUCTION, PROVIDE A COMPETITIVE EDGE AND PREVENT CATASTROPHIC PLANT FAILURE</b> Remington Schieffer <i>DYNAPOWER LLC</i>

11:00 AM - 11:30 AM	<b>ANODIZING FOR ARCHITECTURAL LIGHT FASTNESS</b> <b>Kevin Janis</b> <i>Reliant Aluminum Products, LLC</i>	<b>REACHING UP: USING NON-DRIP SELECTIVE PLATING FOR THE APPLICATION OF ZINC-NICKEL</b> <b>Sarah Medeiros</b> <i>SIFCO ASC</i>	<b>NON-LINEAR THROUGH-HOLE AND RIFLE GROOVE FABRICATION BY ELECTROCHEMICAL MACHINING</b> <b>Andy Moran</b> <i>Faraday Technology, Inc.</i>
	<b>TOPCOAT DESTRUCTION AT THE HANDS OF YOUR PASSIVATE</b> <b>Tyler Batchler</b> <i>Pavco, Inc.</i>	<b>LASER ASSISTED COLD SPRAY (LACS) AS AN ALTERNATIVE TO HVOF, PLASMA AND HELIUM-BASED COLD SPRAY</b> <b>Fred Lagunes</b> <i>ES3</i>	<b>PHTPLUS BY TRINISOFT-ERP SOFTWARE FOR PLATING, HEAT TREATING, POWDER COATING AND FINISHING SERVICES COMPANIES</b> <b>Bobby Haggard</b> <i>TrinSoft</i>

TUESDAY AFTERNOON, JUNE 6			
TIME	SESSION 4	SESSION 5	SESSION 6
	<b>Light Metals Processing II</b> <i>Room 3</i> <b>SESSION CHAIRS</b> Rob Pawson & Caleb Morrison	<b>Aerospace &amp; Defense II</b> <i>Room 4</i> <b>SESSION CHAIRS</b> Wayne Schuette & Dan Hooks	<b>Automation &amp; Process Control II</b> <i>Room 5</i> <b>SESSION CHAIRS</b> Dev Massimi & Tim Hall
1:30 PM - 2:00 PM	<b>ESTABLISHING A CHROMATE COATING LINE USING TYPE I CLASS 3 TESTING STANDARDS</b> <b>Bradley Carpenter</b> <i>SIGMA-2</i>	<b>BRUSH PLATING USE IN US NAVY AND US MARINE CORPS AVIATION</b> <b>Howard Whang &amp; Calvin Chi</b> <i>NAVAIR - Naval Air Systems Command</i>	<b>INDUSTRIAL SUSTAINABILITY ASSESSMENT AND ENHANCEMENT (ISAE) TOOL*</b> <b>Abdurrafay Siddiqui &amp; Yinlun Huang</b> <i>Wayne State University</i>
2:00 PM - 2:30 PM	<b>FACTORS INFLUENCING COLOR CONSISTENCY IN TYPE II ANODIZING</b> <b>Jacqueline Cook</b> <i>Reliant Aluminum Products, LLC</i>	<b>DIRECT BRUSH-PLATING ELECTRODEPOSITION OF ZNNI COATINGS ON AL 2219 BY ONE-STEP PRETREATMENT</b> <b>Andrew Moran</b> <i>Faraday Technology, Inc.</i>	<b>HOW AI CAN BENEFIT SUSTAINABILITY IN PLATING</b> <b>Andreas Scholz</b> <i>Aucos AG</i>
2:30 PM - 3:00 PM	<b>SELECTIVE ZINC FILTRATION IN ALUMINUM BEARING WASTEWATER</b> <b>Travis Johnson</b> <i>Avtec Finishing Systems</i>	<b>AEROSPACE AND DEFENSE – MATCHING FOR ELECTROPLATING TOOL TO THE JOB</b> <b>Keith Legg</b> <i>Cordessa LLC</i>	<b>DIGITAL TWIN-BASED DYNAMIC SUSTAINABILITY ASSESSMENT OF ELECTROPLATING FACILITIES*</b> <b>Mahboubbeh Moghadasi &amp; Yinlun Huang</b> <i>Wayne State University</i>

**3:15 PM - 5:15 PM** – Regulatory & Environmental Update - Christian Richter & Jeff Hannapel, The Policy Group  
*Room 4*

## COMPLIMENTARY WITH EXHIBIT HALL PASS

**5:00 PM - 7:00 PM** – Welcome Reception Sponsored by American Plating Power & Palm Commodities International  
*Show Floor*

## PRE-REGISTRATION REQUIRED

**7:00 PM - 9:00 PM** – Industry Night Hosted by OAMF

## WEDNESDAY MORNING, JUNE 7

### COMPLIMENTRY WITH EXHIBIT HALL PASS

**10:00 AM - 5:00 PM** – Show Floor Open

**10:10 AM - 11:00 AM** – Plenary Lecture: Sharon Miller, NASA Glenn Research Center | Show Floor Stage  
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**11:00 AM - 12:00 AM** – Surface Finishing Boot Camp I  
Show Floor Stage

TIME	<b>SESSION 7</b> <b>Automotive</b> <i>Room 3</i>  <b>SESSION CHAIRS</b> <i>Ling Hao &amp; Patrick Howe</i>	<b>SESSION 8</b> <b>Innovations with Chromium</b> <i>Room 4</i>  <b>SESSION CHAIRS</b> <i>Caleb Morrison &amp; Katherine Lee</i>	<b>SESSION 9</b> <b>Emerging Technologies I</b> <i>Room 5</i>  <b>SESSION CHAIRS</b> <i>James Lindsay &amp; Dan Hooks</i>
<b>8:30 AM - 9:00 AM</b>	<b>CONSIDERATIONS FOR SELECTING THE PROPER FINISH FOR EV RELATED APPLICATIONS</b>  <b>Darrick Gula</b> <i>MKS Atotech</i>	<b>PROCESS COMPARISON HEXAVALENT VS. TRIVALENT HARD CHROME PROCESSES</b>  <b>Eric Svenson &amp; Vicky Salsbury</b> <i>Plating Resources, Inc.</i>	<b>TITANIUM SUBSTRATE PREPARATION FOR ELECTROPLATING WITH HYDROFLUORIC ACID FREE METHODS</b>  <b>Daniel Hooks</b> <i>Los Alamos National Laboratory</i>
<b>9:00 AM - 9:30 AM</b>	<b>FREQUENTLY CONTEMPLATED QUESTIONS FROM PLATING ON PLASTICS PLASTIC PRETREATMENT FOR THE PURPOSE OF ELECTRICAL CONDUCTIVITY</b>  <b>Joe Arnold</b> <i>MKS Atotech USA</i>	<b>TRIVALENT BLACK PASSIVATES: DECORATIVE APPEARANCE FOR ZINC AND ZINC-NICKEL</b>  <b>Dave Simpson</b> <i>Atotech Canada Ltd</i>	<b>TOWARDS ELECTROPLATED RE-CO ALLOYS WITH GRADED COMPOSITION</b>  <b>Michael McBride</b> <i>Los Alamos National Laboratory</i>
<b>9:30 AM - 10:00 AM</b>	<b>EXAMINING METALLIC FASTENER FINISHES, PERFORMANCE FACTORS AND FUTURE TRENDS</b>  <b>Mark Schario</b> <i>Columbia Chemical Corporation</i>	<b>CHROME DEPOSITION FROM A REACH COMPLIANT TRIVALENT CHROMIUM CHEMISTRY</b>  <b>Andrew Moran</b> <i>Faraday Technology, Inc.</i>	<b>DETERMINING APPLIED FORCE DURING VIBRATORY FINISHING</b>  <b>Bill Nebiolo</b> <i>REM Chemicals, Inc.</i>
<b>10:00 AM - 10:30 AM</b>	<b>CHROME(VI)-FREE PASSIVATIONS FOR E-MOBILITY APPLICATIONS</b>  <b>Torsten Koerner</b> <i>SurTec International GmbH</i>	<b>CONVERSION FROM DECORATIVE HEXAVALENT CHROMIUM; REGULATORY STATUS, TRIVALENT PROCESS SELECTION GUIDE, AND A HOW-TO GUIDE/CHECKLIST</b>  <b>Ryan McBath</b> <i>MKS - Atotech USA</i>	<b>EXTRAORDINARY CORROSION, ABRASION RESISTANT SACRIFICIAL ZINC/IRON THERMAL DIFFUSION COATING</b>  <b>Martin Straus</b> <i>Chem-Plate Industries</i>
<b>10:30 AM - 11:00 AM</b>	<b>COBALT-FREE PASSIVATES: ENVIRONMENTAL STEWARDSHIP &amp; PERFORMANCE IMPROVEMENT</b>  <b>Andrew Pfeifer</b> <i>Atotech USA LLC</i>	<b>TABER ABRASION TESTING OF FUNCTIONAL CHROME COATINGS</b>  <b>Kris Johnson</b> <i>The Armoloy Corporation</i>	<b>ASPECTS OF HIGH PHOSPHORUS ELECTROLESS NICKEL COATINGS</b>  <b>Ambrose Schaffer</b> <i>MacDermid Enthone Industrial Solutions</i>



<b>11:00 AM - 11:30 AM</b>	<b>A WINNING COMBINATION - NEW COBALT-FREE PASSIVATES AND TORQUE MODIFYING TOPCOATS</b> <b>Christian Kissig</b> <i>Columbia Chemical</i>	<b>TRIVALENT CHROME ELECTROLYTE FULFILL YOUR ALL CHROMIUM PLATING NEEDS – OSHA/ EPA COMPLIANT</b> <b>Subrata Chakraborty</b> <i>Grauer &amp; Weil (I) Ltd.</i>	<b>DIRECT PRINTING COMPOSITE MATERIALS BY ELECTRO-DEPOSITION</b> <b>Tim Hall</b> <i>Faraday Technology, Inc.</i>
<b>11:30 AM - 12:00 PM</b>	<b>CO2 EMISSION REDUCTION AND CARBON NEUTRAL INITIATIVES IN CORROSION-RESISTANT SURFACE TREATMENTS</b> <b>Ryoichi Sukenobu</b> <i>Yuken America, Inc.</i>	<b>BARREL CHROME: FROM NOVEL PROCESS TO FULL PRODUCTION</b> <b>Brittany McKinney</b> <i>Pavco, Inc.</i>	<b>THE EVOLVING CHEMICAL CONNECTION TO SUCCESSFULLY PROCESSING HIGH END THERMOPLASTIC CONNECTORS</b> <b>Mark Wojtaszek</b> <i>MacDermid Enthone</i>

## WEDNESDAY AFTERNOON, JUNE 7

### COMPLIMENTARY WITH EXHIBIT HALL PASS

**4:00 PM - 5:00 PM** – Women's Networking Event | NASF Booth Show Floor | Sponsored by Univertical

<b>TIME</b>	<b>SESSION 10</b> <b>Environmental and Waste Treatment Considerations</b> <i>Room 3</i> <b>SESSION CHAIRS</b> <b>Fernando Carminholi &amp; Katherine Lee</b>	<b>SESSION 11</b> <b>Developments in Instrumentation</b> <i>Room 4</i> <b>SESSION CHAIRS</b> <b>Dev Massimi &amp; George Milad</b>	<b>SESSION 12</b> <b>Emerging Technologies II</b> <i>Room 5</i> <b>SESSION CHAIRS</b> <b>James Lindsay &amp; Tim Hall</b>
<b>1:30 PM - 2:00 PM</b>	<b>APPLICATION OF PULSE WAVEFORM TO THE ELECTROCHEMICAL REMEDIATION OF PFAS-WASTEWATER: A SIMPLE METHOD FOR IMPROVING EFFICIENCY AND DECREASING COSTS</b> <b>Katherine Lee, Faraday Technology, Inc.</b>	<b>AN INNOVATIVE TECHNIQUE FOR RAPID CHEMICAL CHARACTERIZATION</b> <b>Ellen Williams</b> <i>Exum Instruments</i>	<b>MANUFACTURING AND THERMAL SHOCK CHARACTERIZATION OF POROUS YTTRIA STABILIZED ZIRCONIA FOR HYDROGEN ENERGY SYSTEMS*</b> <b>Majid Minary</b> <i>University of Texas at Dallas</i>
<b>2:00 PM - 2:30 PM</b>	<b>ELECTROCHEMICAL DESTRUCTION OF PFAS IN ELECTROPLATING WASTEWATER*</b> <b>Brian Chaplin</b> <i>University of Illinois - Chicago</i>	<b>DESIGN AND PERFORMANCE REVIEW OF INNOVATIVE MICROWAVE INDUCTIVELY COUPLED ATMOSPHERIC PRESSURE PLASMA – OPTICAL EMISSION SPECTROSCOPY (MICAP-OESTM-1000) UTILIZED IN DETERMINATION OF ELEMENTS IN REPRESENTATIVE PLATING SOLUTIONS</b> <b>Christine Rivera</b> <i>Radom Corporation</i>	<b>ELECTROLESS NICKEL PRETREATMENT</b> <b>Alex Beck</b> <i>Haviland Products Company</i>

<b>2:30 PM - 3:00 PM</b>	<b>TREATMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) BY FOAM FRACTIONATION COUPLED WITH ELECTROCHEMICAL OXIDATION*</b> <b>Qingguo Huang</b> <i>Univesity of Georgia</i>	<b>ELECTROPLATED COATING THICKNESS MEASUREMENTS: XRF THICKNESS VS. CROSS SECTIONAL THICKNESS</b> <b>Robert Weber</b> <i>Fischer Techology, Inc.</i>	<b>PATHWAYS FOR SUSTAINABILITY IN ELECTROLESS NICKEL PROCESSES</b> <b>Douglas Hughes</b> <i>MacDermid Enthone</i>
<b>3:00 PM - 3:30 PM</b>	<b>ALTERNATIVE OXIDANTS AND OPTIMIZATION OF PHOSPHORUS REMOVAL IN ELECTROLESS NICKEL WASTEWATER</b> <b>Steven Buday</b> <i>Haviland Enterprises</i>	<b>XRF STANDARDS FOR THICKNESS PLATING APPLICATIONS</b> <b>Jeffrey Korpus</b> <i>Bowman Analytics, Inc.</i>	<b>WATER - THE UNIVERSAL SOLVENT</b> <b>John Dailey</b> <i>Brenntag Mid-South</i>
<b>3:30 PM - 4:00 PM</b>	<b>TRIVALENT CHROMIUM WASTE TREATMENT SOLUTION</b> <b>Scott Romberger</b> <i>MacDermid Envio Solutions</i>	<b>WHICH COATING THICKNESS MEASUREMENT INSTRUMENT IS RIGHT FOR ME?</b> <b>Robert Weber</b> <i>Fischer Technology, Inc.</i>	<b>BEST PRACTICES FOR ELECTROLESS NICKEL - PTFE PLATING</b> <b>Michael Feldstein</b> <i>Surface Technology, Inc.</i>
<b>4:00 PM - 4:30 PM</b>	<b>LIQUID/SOLIDS SEPARATION – JAR TESTING</b> <b>John Dailey</b> <i>Brenntag Mid-South</i>	<b>NEW WAYS TO SPEED UP XRF COATINGS ANALYSIS TO ACHIEVE 100% INSPECTION</b> <b>Matt Kreiner</b> <i>Hitachi High-Tech Analytical Science</i>	<b>ENCAPSULATED PLATING: EXPANDING SELECTIVE PLATING CAPABILITIES FOR NON-LINE OF SIGHT AREAS</b> <b>Danijela Milosevic</b> <i>SIFCO ASC</i>
<b>4:30 PM - 5:00 PM</b>	<b>HOW TO COUNTERACT FALSE POSITIVES IN YOUR WASTEWATER TREATMENT</b> <b>Robin Deal</b> <i>Hubbard-Hall</i>	<b>BACK TO BASICS: OVERVIEW OF RECTIFIER REPAIR</b> <b>Remington Schieffer</b> <i>DYNAPOWER LLC</i>	<b>NOVEL PROCESS OF PLATING ON POLYMER SUBSTRATES</b> <b>Chris Goode</b> <i>Cirrus Materials Science</i>

## THURSDAY, JUNE 8

### COMPLIMENTARY WITH EXHIBIT HALL PASS

- 9:10 AM - 10:00 AM** – Keynote Speaker: Jeff Szotek, Stellantis | Show Floor Stage | Sponsored by Atotech
- 9:00 AM - 3:00 PM** – Show Floor Open
- 10:00 AM - 10:10 AM** – NASF Annual Members Meeting | Show Floor Stage
- 10:10 AM - 10:30 AM** – NASF Awards Ceremony | Show Floor Stage | Sponsored by Products Finishing
- 10:30 AM - 11:00 AM** – Top Shop Awards | Show Floor Stage | Sponsored by Product Finishing
- 11:00 AM - 12:00 PM** – Surface Finishing Boot Camp II | Show Floor Stage
- 1:00 PM - 2:00 PM** – Blum Lecture: Tim Hall, Faraday Tech. | Show Floor Stage | Sponsored by Products Finishing
- 2:00 PM - 3:00 PM** – Closing Reception Honoring Young Professionals | NASF Booth on Show Floor  
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## TUESDAY, JUNE 6

**12:00 PM - 1:30 PM** – Order of Past Presidents Lunch | *Hilton Hotel* (Invitation Only)

## WEDNESDAY, JUNE 7

**10:00 AM - 11:00 AM** – NASF Suppliers Meeting | *Room 8*

**1:30 PM - 2:30 PM** – NASF Job Shop Meeting | *Room 8*

**2:30 PM - 3:30 PM** – NASF Chapters Meeting | *Room 8*

## THURSDAY, JUNE 8

**11:00 AM - 12:00 PM** – NASF Technology Advisory Committee Meeting | *Room 8*

**2:00 PM - 6:00 PM** – NASF - AESF Joint Board Meeting | *Hilton Hotel* | Invitation Only

**3:00 PM - 4:00 PM** – NASF SUR/FIN Steering Committee Meeting | *Room 8*

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 [beckerengineeredsystems.com](http://beckerengineeredsystems.com)  
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**Birchwood Technologies****552****NASF MEMBER**

 7900 Fuller Rd.  
 Eden Prairie, MN 55344 USA  
 [www.birchwoodtechnologies.com](http://www.birchwoodtechnologies.com)  
 952-937-7931

Birchwood Technologies is a leading provider of high-quality black oxide solutions for metal finishing applications. Their team of experts has extensive knowledge and experience in the black oxide process, including equipment design, chemical formulation, and process optimization. With a focus on innovation and customer satisfaction, Birchwood Technologies is a trusted partner for companies seeking to improve the safety and performance of their metal finishing operations.

**Bluestone Metals & Chemicals****450**

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**Bozkurt Plant Engineering****605**

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 [www.bozkurt-pe.com](http://www.bozkurt-pe.com)  
 8284292618

BOCE Industrial Systems design, build and install all types of finishing systems for North America from our new manufacturing facility in Queretaro Mexico. We are leaders in the design and installation of all types of Anodizing, Plating, and Painting systems including Rack, Barrel, Powder, and Liquid Paint lines including Dip Spin lines. Our clients include OEM's and Tier 1's in the Automotive, Aerospace, and Architectural industry, and our competitive pricing, when compared to all other North American line builders make us an excellent choice for the job shops of North America as well.

**Brawn Mixer****344**

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Holland, MI 49424 USA  
 [brawnmixer.com](http://brawnmixer.com)  
 616-399-5600




Brawn Mixer liquid mixing systems are engineered to the specific processing requirements of each mixing application. High-performance materials of construction and build specifications ensure reliability; proper design and engineering increase operating efficiencies; and extensive process expertise improves output quality.

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 [www.brenntag.com](http://www.brenntag.com)  
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 [www.brocoproducts.com](http://www.brocoproducts.com)  
 216-531-0880


BroCo Products has been a supplier to the surface finishing industry for over 50 years. Known as a premier formulator, manufacturer, and distributor of specialty chemicals for plating & wastewater applications, BroCo Products also has a name as a respected fabricator/distributor of surface finishing equipment. Regardless of the product marketed, BroCo Products has always been associated with quick customer responsive support and topnotch technical support.

**Calorplast USA, LLC****143****NASF MEMBER**

 1287 US Hwy. 50  
Milford, OH 45150 USA  
 [www.calorplastusa.com](http://www.calorplastusa.com)  
 513-576-6333




Calorplast USA is focused on the design and production of world-class heat exchangers.

**Caplugs, Inc.****621****NASF MEMBER**

 2150 Elmwood Ave.  
Buffalo, NY 14207 USA  
 [www.caplugs.com/masking](http://www.caplugs.com/masking)  
 716-876-9855




Celebrating 75 years in 2023, Caplugs, Inc. is the leader in product protection, masking and custom molding. Offering six manufacturing processes to deliver the parts you need, we are committed to providing our customers with the most options in the industry. We are the leader in custom masking, backed by a catalog of over 13,000 standard parts and a dedicated team of engineers delivering custom designs to meet our customers' unique needs. Our custom process enables us to develop unique solutions more quickly and economically than anyone else in the industry.

**CECO Environmental Corporation****623****NASF MEMBER**

 14651 Dallas Pkwy. Ste. 500  
Dallas, TX 75254 USA  
 [www.cecoenviro.com](http://www.cecoenviro.com)  
 214-357-6181

CECO Environmental, a global leader in air quality & fluid handling serving the energy, industrial and other niche markets. Providing innovative technology and application expertise, we help companies grow their business with safe, clean and more efficient solutions that help protect our shared environment. CECO works to improve air quality, optimize the energy value chain & provide custom engineered solutions for applications including oil and gas, power generation, water & wastewater, battery production, poly silicon fabrication, chemical & petrochemical processing along with a range others.

**CFCM Magazine****452****MEDIA PARTNER**

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Midland, ON L4R 2A3 Canada  
 gillian.thomas@cfc.ca  
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CFCM Magazine is Canada's only magazine for Industrial Finishing and Coatings Manufacturing. From raw materials to formulating coatings of all types, to the latest on paint, wood finishes, powder coatings, anodizing and electroplating, we cover it all!

**Clean Harbors****551**

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 www.cleanharbors.com  
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**Cold Shot Chillers****256**

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Houston, TX 77032 USA  
 www.waterchillers.com  
 281-227-8400




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**Columbia Chemical Corporation****333****NASF MEMBER**

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Brunswick, OH 44212 USA  
 info@columbiachemical.com  
 330-225-3200



Well known for breakthrough advancements in surface finishing technology, Columbia Chemical is consistently dedicated to Simplifying Surface Finishing®. A global leader for 45+ years with customers in more than 30 countries, Columbia Chemical has established a reputation for delivering superior plating chemistry and the highest level of expertise to help solve customer's plating challenges, enhance plant efficiency, and control costs. The exclusive Finisher's Advantage® program provides the highest level of technical support, lab analysis, and comprehensive account service. 100% employee-owned.

**Compex Software****664****NASF MEMBER**

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 www.compexsoftware.com  
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**Cornerstone Systems Inc****664****NASF MEMBER**

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 www.visualshop.com  
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Cornerstone Systems is the developer of Visual Shop, a management software solution designed for the metal finishing industry. Includes quotations, certifications, process masters, order scheduling, shop-floor tracking, shipping, pricing, invoicing and so much more.

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 www.crossairllc.com  
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**DAES Distribution****157**

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**Dangler Guy, The LLC****665**

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Tawas City, MI 48763 USA  
 [www.thedanglerguys.com](http://www.thedanglerguys.com)  
 989-362-0846




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**De Nora Tech****318****NASF MEMBER**

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 [americas.denora.com](http://americas.denora.com)  
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**Dipsol of America, Inc.****414****NASF MEMBER**

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Livonia, MI 48150 USA  
 [www.dipsolamerica.com](http://www.dipsolamerica.com)  
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**Druseidt – Intercon USA Inc.****648****NASF MEMBER**

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Blaine, WA 98230 USA  
 [www.intercon1978.com](http://www.intercon1978.com)  
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Intercon, the North American representative, for Druseidt will be showcasing the companies contact blocks, cleaning saddles as well as flexible connectors. For optimum connection between the flight bar and your rectifier, Druseidt is the world leader in spring loaded as well as pneumatically controlled contacts replacing V-blocks as well as other contacts.

**DuBois Chemicals****412****NASF MEMBER**

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 [duboischemicals.com](http://duboischemicals.com)  
 513-919-9898




DuBois Chemicals will be highlighting the product lines of DuBois and Asterion Finishing Technologies which include a technologically advanced line of surface finishing chemical products for paint pretreatment, heat treating, electroplating, electroless plating and waste treatment.

**DuPont****455****NASF MEMBER**

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**Dynamix Incorporated****643**

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 [www.dynamix-inc.com](http://www.dynamix-inc.com)  
 905-477-0900

The primary focus of Dynamix is the design and manufacture of specialty chemicals for the metal and surface finishing industries. Dynamix is proud to be the largest Canadian-owned manufacturer and supplier of surface finishing chemistry. 2021 marked the 15-year anniversary of Dynamix supplying automotive, energy, aerospace, RoHS, ELV, WEEE, and REACH-compliant metal finishing products right across North America. Dynamix was established in 2006 with the goal of being the #1 choice for surface finishing chemistry. Let us enhance your performance by offering the most robust processes available.

**Dynapower Company****308****NASF MEMBER****PREMIER PARTNER**

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**Eagle Engineering Ltd.****613**

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TF7 4QW United Kingdom  
 [www.platingbarrels.com](http://www.platingbarrels.com)  
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**Eastmen Chemicals****355****NASF MEMBER**

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We, Eastmen Chemicals are an ISO certified high purity metallic salts manufacturing company in India for 50 years. We manufacture Nickel, Copper and Cobalt products for surface treatment, electroplating, metal finishing industries and do business in over 15 countries. Our key products: Cobalt Nitrate / Solution; Nickel Nitrate / Solution; Nickel Carbonate; Cobalt Carbonate; Copper Carbonate; Nickel/Cobalt Acetate; USA is our major market and keep stock in warehouses for DDP deliveries to customers. We are REACH certified for certain products for Europe. Look forward to connecting with you.

**Endura Corporation****560**

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**Enviro Solutions****338**

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**EPSI - Engineered Products & Services, Inc.****129**


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**Evoqua Water Technologies****748**


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**Fab-Seal Industrial Liners Inc.****539****NASF MEMBER**


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 [www.fabseal.com](http://www.fabseal.com)

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**Fang Phos, Inc.****445****NASF MEMBER**


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 [www.fangphos.com](http://www.fangphos.com)


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**Fanta Equipment Co.****407****NASF MEMBER**


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**Gilbert & Jones Co., Inc.****536****NASF MEMBER**

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**GPR Wet Process Group****607****NASF MEMBER**

 4271 SW 106th Terrace  
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 [www.gpr-wpg.com](http://www.gpr-wpg.com)  
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GPR Wet Process Group consist of a team w ASC Process Systems, Quantum Design, Trutegra, & Plating OEMs WW to provide from turnkey plating facilities to new process lines to existing line modernization up to 3X productivity. We are unique in that the same SW that simulates/designs the new and upgraded lines is the same SW that does the final real-time control of work cells upon final installation, insuring the simulated flexibility and productivity.

**Grandis Titanium****350**

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Distributor of titanium materials such as; Plate, sheet, bar and wire.

**Hanna Instruments****128****NASF MEMBER**

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 [www.hannainst.com](http://www.hannainst.com)  
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**Hardwood Line Manufacturing****126****NASF MEMBER**

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**Harrington Industrial Plastics****741**

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 [www.harringtonplastics.com](http://www.harringtonplastics.com)  
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**Hartzell Air Movement****656**

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**Haviland Products Company****213****NASF MEMBER****PREMIER PARTNER**

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 800-456-1134




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**HeaterTek****717****NASF MEMBER**

 117 S Kentucky AVE Suite B  
Evansville, IN 47714 USA  
 [www.HeaterTek.com](http://www.HeaterTek.com)  
 812-962-5770




Electric Immersion Heaters and Controls

**Hendor - PE Inc.****449****NASF MEMBER**

 55 Concourse Way  
Greer, SC 29650 USA  
 [www.hendor-pe.com](http://www.hendor-pe.com)  
 864-879-0888

Hendor-PE, Inc will be displaying the Hendor Line of quality pumps and filtration systems, as well as Plating Electronic GmbH power supplies (DC, Pulse and Pulse Reverse). For more information, visit us at booth 449.




**Hubbard-Hall****527****NASF MEMBER**

 563 South Leonard Street  
Waterbury, CT 06708 USA  
 [www.hubbardhall.com](http://www.hubbardhall.com)  
 1-203-756-5521

Founded in 1849, Hubbard-Hall is the oldest independent chemical distributor in the United States. Hubbard-Hall experts help manufacturers reduce cost, complexity and chemical consumption with process efficiencies and product innovation. Now in its 6th generation of family leadership under CEO & Chairman, Molly Kellogg. We are a progressive and reliable partner to over 2,300 companies across industries from military to medical devices. Our experts can help you in the areas of cleaning (aqueous or solvent), metal finishing and wastewater treatment.

## Hung Li (Hurmng Yieh) Machinery Industrial Co. Ltd.

251




-  No. 172, Hoping East Rd. Yung Kang District, Tainan 71042 Taiwan R.O.C.  
 [www.hung-li.com.tw](http://www.hung-li.com.tw)  
 886 6 2530166

Hung Li (Hurmng Yieh) Machinery is specialized in building automated plating or surface treatment lines with over 30 years of experiences. From design, manufacturing, to installation, all processes are done in-house including control systems. We look forward to working with you to economically increase your productivity.

## Hunter Chemical

336

NASF MEMBER

-  220 Commerce Dr. Ste. 200  
Fort Washington, PA 19034 USA  
 [www.hunterchem.com](http://www.hunterchem.com)  
 215-461-1900

Leaders in Chrome Plating and Anodizing Chemistry - Hunter Chemical is an industry leader in the production of fume suppressants and high-speed catalysts. We are one of the largest distributors of chromic acid to the metal finishing industry, shipping from inventory locations across the U.S. Lab support is offered to customers. Hunter also stocks a wide range of cobalt and nickel-based chemicals as well as Rochelle salts, available from stock. Our unique Nickel Carbonate has high purity and dissolves easily, well suited for making pH adjustments. Hunter Chemical is ISO9001:2015 certified.

## IENT Finishing World

737

MEDIA PARTNER



-  199 E. Badger Rd Ste. 100  
Madison, WI 53713 USA  
 [www.ien.com](http://www.ien.com)  
 603-904-4169

Industrial Equipment News provides new-product news and information to targeted readers across a broad cross-section of the industrial community, including manufacturing, mining, utilities, construction, transportation, governmental establishments, educational services, and related fields.

## Indelco Plastics

116




NASF MEMBER

-  25861 Tungsten Rd.  
Euclid, OH 44132 USA  
 [www.indelco.com](http://www.indelco.com)  
 216-797-7300

No other plastic distributor in the industry stocks the quantity and variety of products that Indelco does. Custom Manufacturing. Piping Systems. Compression, Flexible and Repair Couplers CPVC CTS Piping System CPVC Schedule 80 Piping System.

## IPEX USA LLC

639

-  10100 Rodney Street Unit 3  
Pineville, NC 28134 USA  
 [www.ipexna.com](http://www.ipexna.com)  
 800-463-9572

As the leader in thermoplastic piping systems, the IPEX companies design and manufacture the largest, most recognized, and diverse range of integrated piping products – Everything professionals need to manage the full spectrum of today's municipal, industrial, commercial, and residential challenges. Committed to excellence in people, products, and services. Work smarter, faster & easier with IPEX.

## Iwaki America

705

NASF MEMBER

-  5 Boynton Rd.  
Holliston, MA 01746 USA  
 [www.iwakiamerica.com](http://www.iwakiamerica.com)  
 508-429-1440

Operating a "world class" metal finishing operation requires not only the proper chemical technologies, but excellent process control. This is best accomplished via monitoring and control of key process variables along with data acquisition and management. Walchem, Iwaki America Inc. is a leading manufacturer of online analytical instruments and electronic metering pumps, has long provided reliable and innovative solutions for the global water treatment market. Our team can assist you in optimizing your process needs. Stop by booth 705 for more information or visit [www.walchem.com](http://www.walchem.com).

## J. Mark Systems, Inc.




631

-  3696 Northridge Dr. NW Ste. 10  
Walker, MI 49544 USA  
 [www.jmarksystems.com](http://www.jmarksystems.com)  
 616-784-6005

Since 1984, J.Mark Systems has established itself as the provider of quality water treatment systems for the metal finishing industry. With over two hundred wastewater treatment systems in operation, J. Mark Systems has become the complete, turnkey system provider. At J. Mark Systems we bring the vision of experience and a passion for our craft, through system performance, customer satisfaction, and on-time delivery.

## Jasco Chemical Inc.

543

-  6801 Brecksville Rd. Ste. 200  
Independence, OH 44131 USA  
 [www.jasco-kk.co.jp](http://www.jasco-kk.co.jp)  
 614-901-9012

Jasco Chemical is a global chemical supplier offering an integrated approach to the development, manufacturing, and sales of metal surface finishing chemistries. We specialized in zinc, zinc alloy, trivalent, pre-treatment, WWT, and other special metal treatments. Our unflagging pursuit of new frontiers in metal surface treatment and processing solutions and steady support of our client's needs for many years has supported our growth for over fifty years globally. We continue to bring the latest in metal surface finishing technologies to the world.



### Jim Toth Solutions, LLC//Sager + Mack GmbH

357

NASF MEMBER

1030 Wing Dr.  
Ann Arbor, MI 48103 USA  
www.jimtothsolutions.com  
734-478-7620

Sager + Mack has a long tradition: we guarantee a maximum of functionality and productivity since over 30 years. The result is process reliability for your production. This is why customers trust our filters and pumps made in Germany. Jim Toth Solutions, LLC brings 40 years of Electroplating and Surface Finishing experience to your consulting needs and is your North American authorized dealer for all Sager + Mack GmbH Co. & KG requirements!

### JPS Technologies

122

NASF MEMBER

11110 Deerfield Rd.  
Cincinnati, OH 45242 USA  
www.jpstechnologies.com  
513-984-6400

This year marks our 52nd year in business. Our sales team has over 125 years of experience. We supply equipment and chemicals to the Surface Finishing, Electroplating, Aerospace and other related wet processing industries. JPS Technologies is a stocking distributor for MacDermid Enthone Industrial Solutions. JPS Technologies engineering team manufacturer's custom-built wet processing lines. We offer a wide range of products including heaters, filtration systems, lead anodes, rectifiers, chiller systems, tanks, tank liners, etc..

### KCH Engineered Systems

401

NASF MEMBER

144 Industrial Drive  
Forest City, NC 28043 USA  
www.kchservices.com  
888-254-3966

KCH offers a complete catalog of Scrubbers, Mist Eliminators, Ducting, Hoods, Fans, Process Tanks & Process Lines. Your trusted source for all air ventilation and process equipment since 1979. KCH has been committed to the metal finishing industry for over 40 years, offering unrivaled quality, service, and innovation. We have hundreds of installations throughout North America, covering industries such as automotive, aerospace, semiconductors, military, and general job shop. With a fully staffed engineering department, we are more than capable of designing a custom solution to fit your needs!

### Keene Village Plastics

651

100 16th Street, SW.  
Barberton, OH 44203 USA  
sales@villageplastics.com  
330-753-0100

Keene Village Plastics (KVP) is the largest manufacturer of high-quality 3D printer filaments in the United States. If you are looking to integrate 3D printing in your process, we offer a range of services in support of your initiative.

### Kocour Corporation

139

4800 S Saint Louis Ave.  
Chicago, IL 60632 USA  
www.kocour.net  
773-847-1111

Kocour Company will display state-of-the-art hull cells, hull cell rectifiers, accessories, centrifuge, and thickness testing. We will also be displaying silica-free compounds, and animal-fat-free compounds for the medical, food and drug industries. Kocour is ISO9001:2015 Certified.

### Kontek Process Water Management

422

NASF MEMBER

3250 Harvester Rd. Unit 1 Burlington,  
ON L7N 3W9 Canada  
www.kontekwater.com  
877-332-8366

KONTEK Process Water Management is a global leader in providing fully customized, turnkey wastewater recovery, wastewater treatment, and raw water purification systems to an abundance of industries. KONTEK's continual expansion allows us to furnish state-of-the-art design and complete in-house design, engineering and fabrication allows us to provide industrial water management systems to provide effluent compliance, precious metals recovery, waste minimization, closed-loop water recycling, and zero liquid discharge.

### KraftPowercon

509

1005-G Union Center Dr.  
Alpharetta, GA 30004 USA  
kraftpowercon.com  
203-451-0774



KraftPowercon offers solutions, products, services – and drives innovation – within industrial power conversion. We create value for customers by ensuring efficient, green, and reliable processes that meet today's and tomorrow's demands. We are active in areas such as Electrolysis & Hydrogen, Air Pollution Control/ESP, Marine, PCB & Semiconductors, General Metal Finishing and Uninterruptible Power Systems.

**Lanco LLC****313****NASF MEMBER**



 665 10 Mile Rd. NW  
Sparta, MI 49345 USA  
 [www.lanco-corp.com](http://www.lanco-corp.com)  
 616-887-8300

In business since 1976, Lanco LLC's booth will showcase quality used equipment from our warehouse in West Michigan. Lanco will highlight metal finishing and waste treatment equipment, including plating lines, filter presses, rectifiers, clarifiers, spin dryers, evaporators, filters, pumps and anode baskets. Stop by booth 220 to see why Lanco is your #1 supplier of quality used equipment.

**Leister Technologies****711****NASF MEMBER**




 1275 Hamilton Pkwy.  
Itasca, IL 60143 USA  
 [leister.com](http://leister.com)  
 630-760-1000

**LS Industries****544**

 710 E 17th St. N  
Wichita, KS 67214 USA  
 [www.lsindustries.com](http://www.lsindustries.com)  
 316-265-7997




For nearly 45 years LS Industries has been creating solutions for surface preparation problems. We specialize in manufacturing industrial washers, shot blasters and vibratory equipment that automate the finishing process. Our in house engineering staff can create a custom solution or fit our standard machines to your process. We are here to increase your productivity and increase your profits.

**Luster-On Products, Inc.****501****NASF MEMBER**

 54 Waltham Ave.  
Springfield, MA 01109 USA  
 [www.luster-on.com](http://www.luster-on.com)  
 413-739-2541



Understanding Corrosion and Salt Spray How it's produced, NSS testing and how to get the best results possible. Deoxidizing Aluminum as a Pretreatment This important first step can help prepare the metal for subsequent surface finishing.

**Lutz Pumps, Inc.****257**

 1160 Beaver Ruin Road  
Norcross, GA 30093 USA  
 [www.lutzpumpsamerica.com](http://www.lutzpumpsamerica.com)  
 800-843-3901




Lutz Pumps, Inc. ranks among the world's leading suppliers of drum and container pumps, flow meters and diaphragm pumps. An internationally recognized brand, Lutz Pumps made its name as a market leader in fluid management solutions. Lutz Pumps, Inc. is headquartered in Norcross, GA.

**M.W. Watermark****153****NASF MEMBER**

 4660 136th Ave.  
Holland, MI 49424 USA  
 [www.mwwatermark.com](http://www.mwwatermark.com)  
 616-399-8850




M.S. Watermark - Description - Over the years, M.S. Watermark (TM) has grown into one of the largest and most reliable manufacturers of water and process filtration equipment in the nation. As an industry leader, we offer customizable solutions that create efficient water reuse and waste disposal processes. We are committed to quality, reliability, and quick delivery for all orders.

**MacDermid Enthone****213****NASF MEMBER****ALLIANCE PARTNER**

 245 Freight St.  
Waterbury, CT 06702 USA  
 [industrial.macdermidenthone.com](http://industrial.macdermidenthone.com)  
 203-575-5700

Established in 1922, MacDermid Enthone Industrial Solutions celebrates its 100 Years Anniversary. We are proud of our past and see an even brighter future where technology, innovation, and service, can drive development and sustainability. This year at SUR/FIN we are proud to display our portfolio of environmentally friendly products encompassing developments by our most recent integrations, Coventry and HSO, and join forces with Envio Solutions. We bring to the Surface Finishing industry the best in equipment, chemical solutions, and wastewater treatment. Welcome to MacDermid Enthone.

**Magneto Special Anodes an Evoqua Brand****533**

 210 Sixth Avenue, Suite 3300  
Pittsburgh, PA 64152 USA  
 [www.evoqua.com/magneto](http://www.evoqua.com/magneto)  
 800-466-7873

Magneto Special Anodes from Evoqua provide electrochemical industry product owners an optimal electrode solution delivering efficient and reliable operational requirements. As a global leader in the design, production and supply of Titanium based anodes with active precious metal coatings, Magneto provides solutions for electrowinning & recovery, water treatment, metal plating, and impressed current cathodic protection. Our product experts work in partnership with customers to provide an electrode solution for each application, while offering ongoing support to maximize anode life.

**March Pump****148**

 1819 Pickwick Ave.  
Glenview, IL 60026 USA  
 [www.marchpump.com](http://www.marchpump.com)  
 47-729-5300



March Pump is a Manufacturer of Centrifugal Magnetic Drive Pumps, Plastic (Polypropylene and Kynar) and 316 Stainless Steel. Pumps range from 1/2GPM to 200GPM, and a max head of 160 feet. Several plastic models are self priming. Pumps can be equipped with TEFC, Washdown, Explosion Proof, and Air Motors.

**MARPOL Parlatici San. ve Tic. A.S.****661**

 GEPOSB Ataturk Bulvari No: 37  
Gebze, Kocaeli 41400 Turkey  
 [www.marpol.com.tr](http://www.marpol.com.tr)  
 +90 262 751 07 07




We're the leading manufacturer of Polishing Buffs, Polishing Compounds & Abrasive Materials. We established Marpol USA in NJ with warehouse in 2020. We're supplying to numerous of factories in the USA. We've been producing various kinds of polishing materials since 1970 at our production facilities in Europe. We export to more than 60 countries and we can proudly say that, we're one of the biggest producer in the World. Marpol is the only integrated facility, produces abrasives materials, polishing compounds & buffs altogether in a single factory. We've huge production capacity & highest technology.

**McCol Metals****714****NASF MEMBER**

 6 Logy Bay Road, Suite 200  
St. John's, NF A1A 1J3 Canada  
 [mccol.ca](http://mccol.ca)  
 709-228-0969


At McCol Metals, we have developed a process to recover and recycle iridium and ruthenium from spent auxiliary anodes. We become a simple step in the anode re-coating or scrapping process that recovers the remaining PGM (precious group metals), refine them and return value to our customers. Our innovative recovery process has created a circular economy for MMO (mixed metal oxide) anodes and provides sustainability to the global PGM markets.

**Merge Chemistry****650**

 300 Technology Dr  
Christiansburg, VA 24073-7375 USA  
 [www.mergechem.com](http://www.mergechem.com)  
 540-546-3743




MERGE Chemistry is the custom & specialty chemical division of IV Labs, Inc., a privately held, US-based custom chemical manufacturer with 40 years of industry experience. We partner with our clients to drive innovation and accelerate their path to market through rapid prototyping and scale-up without sacrificing quality. We specialize in electroless and electroplating bath components as well as aluminum anodization bath components.

**Metal Chem Inc.****108****NASF MEMBER**

 25 Ellwood Court  
Greenville, SC 29607 USA  
 [www.metalchem-inc.com](http://www.metalchem-inc.com)  
 864-877-6175




Metal Chem exclusively designs and develops electroless nickel and our products are recognized as the best available in today's market. Metal Chem also helps companies achieve their productivity and profitably goals by providing meaningful technical support, free customer driven research, and the ability to custom engineer formulations to address problems.

**Metalor Technologies USA****145**

 255 John L. Dietsch Blvd.  
North Attleboro, MA 02763 USA  
 [www.metalor.com](http://www.metalor.com)  
 508-699-8800




Metalor is proud to present its comprehensive, self-contained ecosystem which allows customers to ensure that all metal they received is responsibly sourced and traceable. Read more Metalor is both a Referee at the LBMA and the LPPM market associations.

**Met-Chem, Inc.****102****NASF MEMBER**

 837 E 79th St.  
Cleveland, OH 44103 USA  
 [www.metchem.com](http://www.metchem.com)  
 216-881-7900




The Met-Chem family of companies will showcase complete wastewater treatment systems from recovery to chemical treatment. Our systems begin on the plating line with the recovery of zinc, nickel and/or chrome from rinses, using evaporative recovery, with our Poly Products evaporative tank. Leftover wastewater from the plating line can then be sent to a standard Met-Chem Waste Treatment System which includes pH adjust, clarifier for solids settling, and a filter press for liquid solids separation that reduces the volume of sludge for disposal.

**Metrohm USA, Inc.****725**

 9250 Camden Field Pkwy.  
Riverview, FL 33578 USA  
 [www.metrohm.com](http://www.metrohm.com)  
 866-METROHM




From routine moisture analysis to sophisticated anion and cation quantification, Metrohm offers a complete line of analytical laboratory and process systems for titration, ion chromatography, electrochemistry, and spectroscopy.

**Metropolitan Alloys Corp.****719****NASF MEMBER**

 17385 Ryan Rd.  
Detroit, MI 48212 USA  
 [www.metroalloys.com](http://www.metroalloys.com)  
 313-366-4444




Metropolitan Alloys serves a wide variety of industries including automotive, steel, appliance, electrical, computer, casket and furniture just to name a few. We are one of the largest suppliers in North America of zinc alloys for die casting and galvanizing, and special high grade zinc ball and bar anodes for electroplating and electrogalvanizing.

**Micromatter Technologies Inc. & Calmetrics Inc.****?**

 8333-130 St, Unit #1  
Surrey, BC, V3W7X4, Canada  
 [www.micromatter.com](http://www.micromatter.com)  
 604-594-9720




MICROMATTER Co. was originally founded in the state of Washington, USA, in 1968 to manufacture thin carbon foils for the scientific community. Over the years, the business expanded to include accelerator targets and, more prominently, calibration materials for X-ray fluorescence (XRF) analysis, which have become the universal 'gold standard' for environmental monitoring, in particular air pollution measurements, and trace analytical applications.

**Midwest Air Products Co. Inc.****617****NASF MEMBER**

 281 Hughes Dr.  
Traverse City, MI 49696 USA  
 [www.midwestair.com](http://www.midwestair.com)  
 231-941-5865




Manufacturer of corrosion resistant pollution control products, including high efficiency chrome scrubbers, industrial fans and blowers, mist eliminators, Predator Auto Fume Capture System™, Terminator™ Exhaust Hood, hoods, and ductwork. In addition, we also offer installation, start-up, maintenance programs and design services.

**Moonstone Enterprises Inc****323****NASF MEMBER**

 3250 Harvester Rd. Unit 1  
Burlington, ON L7N 3W9 Canada  
 [moonstonewater.com](http://moonstonewater.com)  
 800-952-3691




Moonstone's range of products service the need of industrial waste liquids. Our environmentally beneficial systems enable even the smallest of facilities to treat wastewater streams. Each Moonstone system uses custom blended Reactive Separating Agents (RSA's) that clean your wastewater, encapsulate suspended solids, emulsified oils, and dissolved metals, resulting in a nonhazardous residue and clean water for re-use in your facility's process or discharge to drain. Our unique stainless-steel designs are extremely durable, providing you with proven, effective, and affordable treatment.

**National Association for Surface Finishing****327**

 National Press Building, 529 14th Street, NW, Suite 1280, Washington, DC 20045  
 [www.nasf.org](http://www.nasf.org)  
 202.591.2454




NASF advances the industry's interests by playing a strong leadership role in industry promotion, training, science and technology, and government affairs. We are happy to share the benefits of membership. The Ohio Chapter is hosting the Tuesday evening Industry Night Event and you can reserve your ticket at the NASF booth.

**NewAct Inc.****638****NASF MEMBER**

 2084 James E. Sauls Sr. Dr  
Batavia, OH 45103 USA  
 [www.newactinc.com](http://www.newactinc.com)  
 513-321-5177

The only manufacturer that compression molds the coating directly to the cable. Which eliminates most drag out of solution. We make two types of sleeves, CPE, and a Kevlar reinforced CPE for extra cut resistance. Our heads are made from Unleaded carbon steel. Stainless, brass, and titanium are also available. NewAct makes dangles in most cable gauges. Show us your specialty dangles, we would be happy to quote. We mold masks for plating and other coatings. We make a line of plastic sleeves to reduce twist-off along with other standard plastic parts. Last year was our 35th year in the dangle business.

**Niche FPP****549**

 42 Mountain Avenue  
Nesquehoning, PA 18240 USA  
 [www.nichefpp.com](http://www.nichefpp.com)  
 570-413-5436




Niche Fluoropolymer Products provides heating and cooling solutions using fluoropolymer shell & tube and immersion coils. Applications include electroplating, electroforming and electroless plating baths, acidic and alkaline solutions for etching, chemical milling, anodizing, cleaning, stripping, electro polishing and similar operations. The well-known non-stick characteristics of fluoropolymer resins resist scale buildup. These inherently inert characteristics prevents corrosion and fouling. Its high electrical resistance minimizes the effects of stray currents in electroplating tanks.



## North American Rectifiers

29




## NASF MEMBER

 1655 Strasburg Road  
Kitchener, ON N2R 0C9 Canada  
 [www.narpower.com](http://www.narpower.com)  
 519-436-1941

Manufacturer of custom SCR DC power supplies and representing Plating Electronic SWITCH MODE rectifiers now available with Harmonic Reduction Technology. Power supplies available in both water and air cooled, reversing and pulse reverse. From the smallest power output configurations to 100,000A ++ power supplies. NAR's legendary reliability is driving our growth... pure and simple.

## Oakland Products, Inc.

156




 436 Allegheny Blvd.  
Franklin, PA 16323 USA  
 [www.oaklandproducts.com](http://www.oaklandproducts.com)  
 814-432-2200

Will be displaying NOBLES centrifugal dryers.

## Okuno International Corporation

620




## NASF MEMBER

 40000 Grand River Ave. Ste. 103  
Novi, MI 48375 USA  
 [www.okuno-intl.com](http://www.okuno-intl.com)  
 248-536-2727

We have a new product in our Electroless Nickel Plating lineup. TOP NICORON LLM-LF is a Mid-P, ammonia-free Electroless Nickel solution designed to last up to 20 MTO! This product is one of the featured items at our booth at SUR/FIN 2023 in Cleveland.

## Ovasco Industries

353

 1475 S. Fifteenth St  
Louisville, KY 40210 USA  
 [www.ovasco.com/](http://www.ovasco.com/)  
 502-584-2219




Ovasco Industries has been a trusted partner for our customers since 1920. Our large warehouse and on-site production facilities allow us to proudly offer just in time delivery as well as same day shipping on most orders. We have a strong relationship with our freight partners that helps us ensure that our customers' orders are reliably and quickly delivered. We take a proactive approach to solving our customers problems. We take pride in getting to know our customers and understanding not only their needs but also what problems they may be having, so we can work together to provide a solution that serves their needs.

## Palm Commodities

409

## NASF MEMBER

## PREMIER PARTNER




 1717 JP Hennessy Dr.  
LaVergne, TN 37086 USA  
 [www.palmcinc.com](http://www.palmcinc.com)  
 615-641-1200

Built on a foundation of quality and service for over thirty years, Palm Commodities International, LLC is a premier international supplier of high-quality specialty chemicals and metals to the surface finishing, battery, catalyst, and electronics industries.

## Parker Boiler Co.

556

## NASF MEMBER

 930 Bandini Blvd.  
Los Angeles, CA 90040 USA  
 [www.parkerboiler.com](http://www.parkerboiler.com)  
 323-727-9800

The Parker Boiler Co. was founded in 1919 and is a world-renowned manufacturer of steam boilers from 1.5 H.P. to 150 H.P. with pressures to 250 PSI capable of delivering dry steam in under 10 minutes. We manufacture direct-fired hot water boilers (available as gas, oil, propane, or combination-fired) ranging from 300,000 to 6,800,000 BTU, with operating temperatures to 400°F degrees and pressures to 300 PSI. Our indirect-fired water heaters (available as gas or propane-fired) range from 300,000 to 3,000,000 BTU input, with operating temperatures to 190°F degrees and pressures to 150 PSI.




## Parker Trutec

363

 4795 Upper Valley Pike  
Urbana, OH 43078 USA  
 [www.parkertrutec.com](http://www.parkertrutec.com)  
 937-653-8500




Parker Trutec serves a wide range of industries with an understanding of the unique requirements and demands of these customers. We offer a variety of coating, heat treatment, and service solutions to help solve industry challenges while ensuring quality products.

**Pavco Inc.****321****NASF MEMBER****PREMIER PARTNER**

 9401 Nations Ford Rd.  
Charlotte, NC 28273 USA  
 [www.pavco.com](http://www.pavco.com)  
 704-496-6800




Pavco's commitment on expanding competitive advantages to our client's operations is stronger than ever with our focus on surface finishing technologies that make the best use of precious resources. HyProTec™ LD is part of our Co-free passivate family. HyProCoat™ 630 is a pH insensitive topcoat which greatly extends bath life. Smart Zinc Premier (Chloride Zn), and Decotri (Chloride CrIII) are plating systems that use far less energy than industry standard low temperature chloride Zn or hexavalent chromium plating. Hex-A-Gone Revolution is barrel CrIII plating! Meet us at booth 321!

**Peerless Custom Rack Co. Ltd.****443, 542****NASF MEMBER**

 102 Fenmar Dr.  
Toronto, ON M9L 1M5 Canada  
 [www.pcrcl.com](http://www.pcrcl.com)  
 416-749-5446




Peerless Custom Rack is a designer & fabricator of tooling racks for electroplating, e-coating, powder coating, spray painting, and electroless nickel plating.

**Performance Review Institute - PRI****250**

 1161 Thorn Hill Rd  
Warrendale, PA 15086-7527  
 [www.p-r-i.org](http://www.p-r-i.org)  
 724-772-8679

Since being established as a not-for-profit trade association in 1990, PRI has become the global authority in facilitating industry-managed programs and administering critical process accreditation programs as well as developing web-based audit management software. Remaining cost-effective while continually identifying new ways to add value for our customers is our priority.

**PHTPlus by TrinSoft****554****NASF MEMBER**

 1025 Monarch St. Suite 170  
Lexington, KY 40513 USA  
 [www.phtplus.com](http://www.phtplus.com)  
 859-252-6225




PHTPlus is a feature rich and fully integrated ERP solution that has been specifically designed for the plating, heat treating, powder coating, and finishing services industry. PHTPlus is built on top of the award winning Microsoft Dynamics 365 platform. PHTPlus gives the user complete visibility to travelers, scheduling, routings, work orders, and more while also having a fully integrated chart of accounts, general ledger, financial reporting and much more! Our solution can be available 100% in the cloud or via an on-premises installation. Please visit our website at [www.phtplus.com](http://www.phtplus.com).

**Plating International Inc.****632****NASF MEMBER**

 11142 Addison Ave.  
Franklin Park, IL 60131 USA  
 [www.platinginternational.com](http://www.platinginternational.com)  
 847-451-2101

Plating International™ is your one-stop shop for functional plating chemicals, equipment, and plating lines in North America. Focusing on innovation in hard chrome and electroless nickel plating chemistries, plating lines and equipment, and toll blending. Our dry IBC tote technology for chrome platers and single-component electroless nickel for EN platers are two examples of how Plating International™ is guiding the future of innovation in the plating industry. We manufacture at our state-of-the-art facilities in Franklin Park, IL, and Temple, TX liquid chrome and dry chromic acid materials.

**Precious Metal Sales Inc.****136****NASF MEMBER**

 100 New Wood Rd.  
Watertown, CT 06795 USA  
 [www.pmsalesinc.com](http://www.pmsalesinc.com)  
 860-274-8813

PM Sales Inc. manufactures and distributes high-quality metals, salts, and compounds, including gold and platinized anodes for electroplating; pure silver anodes, cones, and balls; PGMs, and process chemistry from the start of the process through refining and high-return recovery. Flexible in-house financing options & exceptional customer service. Alloy or surface finishing applications in captive, contract, or job shops - 35 years of experience serving Aerospace/ Defense, Appliance, Decorative, Jewelry, Electronics, PCBs, Semiconductors, Wire Mfg, Oil, Gas & Energy, Medical.

**Precision Process Inc.****644****NASF MEMBER**

 2111 Liberty Drive  
Niagara Falls, NY 14304 USA  
 [www.precisionprocess.com](http://www.precisionprocess.com)  
 716-731-1587

Precision Process manufactures electroplating, anodizing, and similar chemical process equipment. Primary product configurations include automatic hoist lines, reel-to-reel lines, wide web/roll-to-roll systems, and wire lines. We provide engineering and manufacturing services for line retrofits such as new hoists, software, automatic loading/unloading, and facilities work pits, trenches, ventilation, and waste treatment. Precision Process is a one-stop shop for all your plating and anodizing equipment needs.

## PriceWalgren &amp; Jessup

43

NASF MEMBER

5041 68th St. SE  
Caledonia, MI 49316 USA  
www.kochllc.com  
616-512-6425

PriceWalgren & Jessup Systems, both divisions of KOCH Finishing Systems, design, build, install, and maintain fully automated metal finishing systems. Our years of combined experience allows our companies to custom design equipment for large Aerospace, Automotive, and Architectural customers, as well as smaller Job Shops and barrel plating applications.

## Process Electronics Corporation

332

NASF MEMBER

PREMIER PARTNER

100 Brickyard Rd. PO Box 505  
Mt. Holly NC, 28120 USA  
www.pecrectifier.com  
704-827-9019

Process Electronics Corporation manufactures quality UDYLITE Power conversion equipment for all industrial applications. For 55+ years, PEC has met demanding requirements with standard and custom designs. Our customer base is global, and we offer unsurpassed after-sale support. From closed-loop, liquid-cooled power centers to portable bench converters, PEC-UDYLITE is the choice for dependable and efficient power. PEC has earned a reputation for providing the best value in high-quality shipping to more than 50,000 units globally. At PEC, we provide both the most proven technology and unparalleled technical support from our professional staff, in addition to quality parts and service.

## Process Technology

101

NASF MEMBER

ALLIANCE PARTNER

38809 Mentor Ave.  
Willoughby, OH 44094 USA  
www.processtechnology.com  
440-974-1300

Innovating Processes and Automation since 1978. Process Technology is a global, US-based company focused on designing and manufacturing world-class thermal and power supply products. We are committed to creating quality products that are safe, precise, and clean through advanced design, engineering, technology, digitization, production, and training. Products include chemical and solvent heaters, quartz heaters, fluoropolymer (PTFE) heaters, electric immersion heaters, heat exchangers, and Dynatronix by Process Technology power supplies. ISO 9001:2015 with Design Certified.

## Procom LLC

114

NASF MEMBER

PO BOX 3350  
Ann Arbor, MI 48106 USA  
procom-us.us  
888-818-5733

Electroplating Solutions since 1924. Partners with Bergische Elektrochemie GmbH. Procom began servicing the North American electroplating industry in 1988. Our German partner company has been in business assisting clients to improve existing formulations and solve unique electroplating problems that arise in the field. The initial charter of Procom was to provide formulation assistance and the necessary chemical intermediates synthesized by Bergische. This allowed our customers to manufacture brighteners for acid copper, semi-bright and bright nickel, zinc, zinc alloys, tin, and others.

## Products Finishing Magazine

140

NASF MEMBER

MEDIA PARTNER

6915 Valley Ave.  
Cincinnati, OH 45244 USA  
www.pfonline.com  
513-527-8800

With more than 25,000 subscribers in 15,000+ facilities, the Products Finishing brand offers the largest reach into the industrial finishing market. PF offers editorial coverage on all the surface treatment technologies, from organic to inorganic, reaching a highly qualified and BPA audited circulation through the print magazine along with a global digital audience. PF brings the latest news, best practices and finishing technology impacting the industry via our print and digital channels every day, week and month of the year.

## Progalvano Srl

555

NASF MEMBER




Viale Lombardia 32/F  
S. Giuliano Milanese, Milan 20098 Italy  
www.progalvano.it  
39 029880083

Progalvano develops, produces, and sells on the Global Market plating barrels and accessories for plating plants. Thanks to a unique experience achieved across a 5-decades activity and thanks to the constant improvement of our industrial processes, our company focuses on its tradition, innovation, devotion, and commitment, with the aim of offering concrete quality to customers and partners.

## Pro-MEC Engineering Services Inc.

738

### NASF MEMBER

 480 Promec Dr.  
Grand Ledge, MI 48837 USA  
 [www.pro-mec.com](http://www.pro-mec.com)  
 517-627-8532

Pro-MEC Engineering Services, Inc. is a leading turn-key contracting firm of industrial and commercial services. Click "Capabilities" in the menu to learn more about what we can do for your business. THE Pro-MEC ADVANTAGE Since 2000 our industrial air pollution control team has delivered turn-key solutions across the globe.

## ProPlate

248

### NASF MEMBER




 845 Executive Ln. Ste. 200  
Rockledge, FL 32955 USA  
 [ProPlate.pro](http://ProPlate.pro)  
 321-735-4159

Introducing ProPlate™ (ProPlate.pro) the Next Generation Enterprise Software which is designed to incorporate all aspects of surface finishing operations. ProPlate™ operates from the Cloud so it does not have to be purchased and no customer IT infrastructure is required to operate it. ProPlate™ streamlines operational efficiencies that will minimize Re-Work, and as a result optimize your Processing Capacity, Quality Consistency, Financial Results and most importantly Customer Loyalty.

## Pyromet Inc.

339

### NASF MEMBER




 5 Commerce Dr.  
Aston, PA 19014 USA  
 [pyromet999.com](http://pyromet999.com)  
 516-662-1090

Pyromet is a leading silver refiner and silver manufacturer in the nation. With excellent customer service Pyromet offer assistance in silver recover and silver products.

## QML, Inc.

151




### NASF MEMBER

 272 Ferris Ave.  
Rumford, RI 02916 USA  
 [www.QML.us](http://www.QML.us)  
 401-490-4555

QML, Inc. is a premier source for precious metal reclamation and recycling services. With over 50 years of experience helping customers maximize the value of their Gold, Silver, Platinum, Palladium, Rhodium, Iridium, Ruthenium and Copper waste streams. Whether through global sourcing or processing in our 50,000 square foot secure and environmentally friendly facility in North Smithfield Rhode Island, we are committed to conducting business responsibly, and in a manner that protects the safety of our employees, customers, community, and the environment. QML Inc. – The Better Choice

## Radom Corp.

715




 N27W23676 Paul Road  
Pewaukee, WI 53072 USA  
 [www.radomcorp.com](http://www.radomcorp.com)  
 877-977-2366

Radom Corporation is a global leader in advanced plasma technologies. Radom develops and commercializes sustainable and innovative plasma solutions for industries in analytical instrumentation, organic fertilizer, clean tech, and hydrogen generation. Our products and instruments lead to safer processes, faster performance, and reduction of pollution with the promise of detoxifying the Earth.

## REL, Inc.

703




### NASF MEMBER

 57640 North Eleventh Street  
Calumet, MI 49913 USA  
 [www.relinc.com](http://www.relinc.com)  
 906-337-3018

REL products are made in the USA on the shores of Lake Superior in the Upper Peninsula of Michigan, where we were originally founded. Our world headquarters has always been a blend of custom engineering facilities, advanced research labs, and friendly office space. REL equipment utilizes PLCs as the electronic workhorse of their automated solutions. The Coho solution provides data traceability and real-time data to provide simultaneous visibility to ALL process stakeholders.

## Reldan

548

 550 Old Bordentown Rd.  
Fairless Hills, PA 19030 USA  
 [www.reldan.com](http://www.reldan.com)  
 267-316-2000

For over 40 years Reldan has refined precious metal scrap using our advanced expertise and innovative solutions to meet any global processing and refining challenges, while maximizing your value and protecting the environment. Intelligent Refining.

## Reliable Silver Corporation

465

 302 Platts Mill Rd.  
Naugatuck, CT 06770 USA  
 203-574-7732  
 [www.reliablecorp.com](http://www.reliablecorp.com)

Reliable Silver Corporation manufactures and supplies precious metal products of gold, silver, platinum, and palladium. Product lines focus on plating anodes, gold and silver cyanides, precious metal salts and chemicals, silver wire, strip, overlays, and rods, including coin silver rods. We also produce a full line of sputtering targets and evaporation materials. Products serve electroplating, semiconductors, electrical contacts, large area coatings, flexible web coatings, aerospace, power generation, medical, and wearables applications.



**Republic Metals****713****NASF MEMBER**

 7930 Jones Rd.  
Cleveland, OH 44105 USA  
 [www.republicmetals.com](http://www.republicmetals.com)  
 216-641-2575

Republic Metals is the leader in Lead Anode Manufacturing since 1924. We manufacture stick anodes and conforming anodes, all specially fabricated to customer specifications. Republic Metals produces anodes of the highest quality, utilizing an exclusive nonmetallic flux to create a virtually perfect bond that outperforms cast anodes.

**ResinTech, Inc.****229**

 1801 Federal Street  
Camden, NJ 08105 USA  
 [www.resintech.com](http://www.resintech.com)  
 856-768-9600




ResinTech is a globally recognized leader in the use of ion exchange for water & wastewater purification. Our Regeneration Services division offers a wide array of services that help commercial and industrial operators extend the life of their water and wastewater treatment resources. We provide onsite resin regeneration and RO membrane restoration services and specialize in designing closed-loop wastewater recycling systems for the metal finishing and EDM industries. Our products help remove dissolved contaminants present in industrial aqueous environments and reduce water-related expenses.

**Ritmo America LLC****743**

 300 S Acuff Rd  
Lake Wales, FL 33859-8145 USA  
 [www.ritmo.it](http://www.ritmo.it)  
 863-679-8655

Ritmo America LLC is an Italian manufacturing firm for various plastic fusion variations. We have 2 branches that support the United States in Florida and Texas. Here at the Sur/fin show we will display our plastic fabrication line such as hot air welders and plastic extrusion guns.

**Ryotronics Inc.****245****NASF MEMBER**

 3635 San Gabriel River Pkwy  
Pico Rivera, CA 90660 USA  
 [www.ryotronics.com](http://www.ryotronics.com)  
 909-272-8877

RYOTRONICS Inc. is a manufacturer direct branch located in Pico Rivera, California. Offers wide variety of standard products, up to 40,000A, single unit rectifier, and 200,000A for modular design. Conventional (Analog) or Advanced (24-Pulse) Touch Panel Control types. Our Engineering division also do Repair, Refurbish and Calibration on not only our own brand rectifiers, but also other manufactures'. On-site repairing/calibration/installation service is available with reservations. RYOTRONICS Inc., gives you the robust quality, leading warranty and reputable services. Call today!

**SanRex Corporation****249****NASF MEMBER**

 50 Seaview Blvd.  
Port Washington, NY 11050 USA  
 [www.sansha.co.jp/eng/products/surface/](http://www.sansha.co.jp/eng/products/surface/)  
 516-625-1313

Leading The New Power Electronics--- SanRex offers so many types of robust rectifiers for surface finishing market. In addition to robustness, SanRex achieves high efficiency and low ripple with our power electronics technologies. SanRex technologies come from not only surface finishing but also several industrial markets such as renewable energy, energy storage, welding, lighting etc. Plating rectifier is one of the long-selling products that SanRex is offering.

**Sayron Elektronik Enerji San. ve Tic. A.S.****361**

 Orta Mah. Atayolu Cd. Eksioglu Erdem  
San. Sit. F1 Blok No:4 Tuzla, Istanbul,  
34956 Turkey  
 [www.sayron.com.tr](http://www.sayron.com.tr)  
 90 216 491 02 11




Sayron is a leading manufacturer established in Turkey with the capacity and ability to produce for all sectors where rectifiers are used.

**Scientific Control Laboratories, Inc.****239**

 3158 S Kolin Ave.  
Chicago, IL 60623 USA  
 [www.sclweb.com](http://www.sclweb.com)  
 773-254-2406

SCL is an A2LA and NADCAP accredited testing laboratory with over 80 years of technical expertise in metal finishing quality control, troubleshooting, and failure analysis. We also offer engineering services and EHS training.

**ScrubAir Systems, Inc.****628**

 1200 Ensell Rd.  
Lake Zurich, IL 60047 USA  
 [www.scrubair.com](http://www.scrubair.com)  
 847-550-8061

ScrubAir is committed to providing industrial and commercial facilities with the finest ventilation systems and air pollution control equipment available – using proven technology, efficient design, unsurpassed quality and trustworthy customer service to improve workplace conditions and meet the required environmental compliance regulations. We engineer, manufacture, service and install turnkey ventilation systems.

**SERFILCO, Ltd.****113****NASF MEMBER**

 2900 MacArthur Blvd.  
Northbrook, IL 60062 USA  
 [www.serfilco.com](http://www.serfilco.com)  
 847-509-2900

SERFILCO® is a global supplier of liquid handling equipment for chemical, surface finishing and other wet process applications. Headquartered in Northbrook Illinois since its inception in 1961, SERFILCO® has developed an enviable worldwide reputation for quality and innovation. SERFILCO® are specialists in the design, manufacture and distribution of corrosion resistant pumps, filters, filter media and agitation systems.

**SIDASA Engineering****237****NASF MEMBER****EXECUTIVE PARTNER**

 Calle 40 n16 SIDASA  
Barcelona, 08040 Spain  
 [www.sidas.com](http://www.sidas.com)  
 +1 66 2305862




SIDASA Engineering is one of the world's leading integrated surface treatment companies. Our success is driven by close to 60 years of experience and our team operating responsibly, executing with excellence, applying innovative technologies, and capturing new opportunities for profitable growth. We develop machines to satisfy your needs in many fields of the surface treatment industry. We research for design, manufacturing, and commissioning of full automated paints.

**SIFCO ASC****438****NASF MEMBER**

 5708 E Schaaf Rd.  
Independence, OH 44131 USA  
 [www.sifcoasc.com](http://www.sifcoasc.com)  
 800-765-4131




SIFCO ASC is the global leader in selective plating solutions. A Quaker Houghton company, at SIFCO ASC we provide practical, cost-effective selective brush plating solutions to improve part performance and reduce manufacturing costs through corrosion protection, increased wear resistance, increased hardness, improved conductivity, anti-galling, or slip. Our surface enhancement technologies and brush plating services have been utilized for over 50 years on both OEM components and on parts requiring refurbishment in the aerospace, oil and gas, general industry, and power generation sectors.

**Sims Lifecycle Services,  
Precious Metals Group****728**

 3700 Runge St.  
Franklin Park, IL 60131 USA  
 [www.simslifecycle.com](http://www.simslifecycle.com)  
 847-455-8800




Sims Lifecycle Services (SLS) is a part of Sims Limited, a publicly held world-leading metals and electronics recycler. SLS Precious Metals Group specializes in refining services through environmental reclamation of precious metals (gold, silver, platinum, and palladium) from PCBA's, production scrap, prototypes, obsolete inventories, and off-spec parts and components. As a division of Sims Limited, SLS has the financial strength and stability to offer flexibility with financial settlements, as well as customizable solutions for unlocking maximum value from unique and complex materials.

**SIRCO Industrial Inc.****545****NASF MEMBER**

 5312 System Dr.  
Huntington Beach, CA 92649 USA  
 [www.sircoindustrial.com](http://www.sircoindustrial.com)  
 714-969-1413




Sirco Industrial, Inc. has emerged as the true Experts in Industrial Water Treatment, Recycling & Compliance because of its ability to provide complete solutions for every customer, build top quality products & systems, offer outstanding guidance on Recycling & the Environment, and provide stellar customer service every step of the way.

**Spray Tech Junair****243**

 1427 N. Linden Ave.  
Rialto, CA 92376 USA  
 [www.spraytech.com](http://www.spraytech.com)  
 909-419-7011



Spray-Tech/Junair designs and manufactures the highest quality industrial finishing equipment in the industry. This includes equipment like spray booths, bake ovens, paint mixing rooms, powder coating equipment, and even completely automated finishing systems. We have proven to be the premier designer and manufacturer of precision, quality constructed spray booths and other essential finishing equipment that allow our customers to safely paint and refinish their products in the most economical way possible.

**Steelhead Technologies Inc****563****NASF MEMBER**

 300 Hecla Street  
Laurium, MI 49913 USA  
 [gosteelhead.com](http://gosteelhead.com)  
 810-819-0405




Steelhead Technologies provides a modern job shop operating system made specifically for the surface finishing industry. Come visit booth 563 to see how the Steelhead platform can make your plant more connected, efficient, and profitable!

**Stenner Pump Company****615**

 3174 Desalvo Rd.  
Jacksonville, FL 32246 USA  
 [www.stenner.com](http://www.stenner.com)  
 904-641-1666



US manufacturer with 3-day lead time. Est. 1957, the Stenner Pump Company manufactures reliable and accurate peristaltic metering pumps to inject solutions for wastewater treatment, acids and alkaline for pH control plus replenishment additives, phosphates and brighteners. Select a robust or compact pump with various activation modes. Some models have backup pump capability, output relays and leak detection. Some models available as a pre-assembled tank or meter system. Accessories include flow switch, flow indicator, solution tanks and water meters.

**SurTec, Inc.****119****NASF MEMBER**

 3097 Interstate Pkwy.  
Brunswick, OH 44212 USA  
 [www.surtec.com/](http://www.surtec.com/)  
 440-239-9710




With our in house formulations we are an industry pioneer. Dedicated customer collaboration, high Research & Development intensity and decades of valued expertise within our global expert teams keeps us relevant and cutting edge.

**Sun-Glo Machining and Metal Finishing****731**

 14493 62nd Street, N.  
Clearwater, FL 22760 USA  
 [www.sun-glo.com](http://www.sun-glo.com)  
 800-741-1456

From coating to plating and cleaning to polishing we offer a wide range of metal finishing services. Employing an on-site Chemist and rigid quality control standards allow for you to be confident in the end product. Combine this with state-of-the-art automation and technology and your job will be delivered on time.

**Technic Inc.****221****NASF MEMBER**

 55 Maryland Ave.  
Pawtucket, RI 02860 USA  
 [www.technic.com](http://www.technic.com)  
 401-721-2300




Technic's Equipment Division offers a full-range of equipment capabilities for electroplating and related applications, from fully automated systems for new facilities to replacement parts and upgrades to improve operational efficiency. For over 75 years, Technic has been a global supplier of specialty chemicals, custom finishing equipment, engineered powders, and analytical control systems to the semiconductor, electronic component, printed circuit board, industrial finishing, and decorative industries. Technic is also a major supplier of engineered metal powders to the solar industry.

**Tecnoplast USA LLC****454****NASF MEMBER**

 3619 W 73 St.  
Anderson, IN 46011 USA  
 [www.tecnoplastusa.com](http://www.tecnoplastusa.com)  
 757-754-0916


The systems made by TECNOPLAST concern the processing of corrosive fumes and odors found in industrial applications (air scrubbers), metal finishing systems (pickling, electroplating) and automatic chemical dosing systems. The task of our team is to offer support and solutions, designing systems according to the needs and demands of the customer.

**Therma-Tron-X, Inc.****701****NASF MEMBER**

 1155 S Neenah Ave.  
Sturgeon Bay, WI 54235 USA  
 [www.ttxinc.com](http://www.ttxinc.com)  
 920-743-6568

TTX was established in 1969 as a manufacturer of Industrial Ovens. Today, TTX designs, fabricates and installs custom paint finishing systems for manufacturers seeking to process their products through state-of-the-art finishing facilities. Class A, B or C, these installations often include material handling, pretreatment, finish application, cure, and water and wastewater treatment, along with complete process control, data collection and reporting.

**Three D Metals, Inc****118**




 5462 Innovation Dr.  
Valley City, OH 44280 USA  
 [threedmetals.com](http://threedmetals.com)  
 800-362-9905

We process and distribute high quality aluminum, copper, high and low carbon steel, Welding Filler Metals, and more for many industries and applications. We are a family-owned, multi-million-dollar metal supply company known for our extensive expertise in full-service metal processing and distribution for nearly half a century. Our success is driven by our customers and powered by our people.

### TITAN Metal Fabricators/ RighTech Fabrication/Optimum Anode Technologies

209

#### NASF MEMBER


 352 Balboa Cir.  
Camarillo, CA 93012 USA  
 [www.titanmf.com](http://www.titanmf.com)  
 805-487-5050

ISGEC TITAN Metal Fabricators Private Ltd. is a joint venture combining the strengths and resources of the two leading metal equipment fabrication companies – Isgec Heavy Engineering Ltd. of India and TITAN Metal Fabricators, Inc. of USA. Created to fulfill the increasing global need for corrosion-resistant process equipment, ISGEC TITAN serves the Chemical, Oil & Gas, Petrochemical, Mining, Power, Fertilizer, Steel, Desalination and Pharmaceutical Industries.

### Tolber Division

727

#### NASF MEMBER



 220 West 5th Street PO Box 765 Hope,  
AR 71801 USA  
 [www.tolber.com](http://www.tolber.com)  
 870-777-3251

TOLBER MICCRO PRODUCTS Stop-Off Lacquer. Stop-Off Lacquer VOC Free Reducer. Stripper Plastisol. Primer Wax Tape

### Tri-Mer Corporation

538




#### NASF MEMBER

 1400 Monroe St.  
Owosso, MI 48867 USA  
 [www.tri-mer.com](http://www.tri-mer.com)  
 989-723-7838

Tri-Mer air pollution control equipment: chemical-free Fan/Separator scrubs corrosive fumes with 1/10th the water of traditional scrubbers; Crossflow for inorganic compounds; odor control systems that also handle particulate. C/E-1 Chrome Scrubber is 99.5%+ efficient for all chrome regardless of loading; Whirl/Wet self-cleaning dust collector with 99%+ efficiency for particulate 3+ microns. Tri-Mer designs, fabricates, & installs turnkey systems; tanks, ducting, exhaust hoods, material handling, user interfaces. 6000+ pollution control systems operating worldwide; manufacturing in Owosso, MI.

### Trionetics Inc.

561




 4924 Schaaf Ln.  
Brooklyn Heights, OH 44131 USA  
 [www.trionetics.com](http://www.trionetics.com)  
 216-812-3570

Trionetics was founded in 1987 and specializes in highly automated, user-friendly industrial water purification, wastewater treatment/recycling and plating lines. We have the knowledge and experience to help you achieve any water treatment goal, regardless of your industry: electronics, printed circuit boards, automotive, aerospace, food and beverage, canning, metal finishing, or mining. This is because we have a diverse client base, over 40 years of combined experience, and experience developing custom products for hundreds of customers.

### TrueLogic Company

112




#### NASF MEMBER

 255 W 15th St. Ste. 550  
Plano, TX 75075 USA  
 [www.truelogiccompany.com](http://www.truelogiccompany.com)  
 972-423-9100

TrueLogic: a software and services company providing performance, consistency, and quality solutions for select manufacturing processes. TrueChem: a flexible software package that automates the management of manufacturing processes associated with chemistries and coatings.

### Trutegra

706

 901 Blairhill Road Suite 500  
Charlotte, NC 28217  
 [www.trutegra.com](http://www.trutegra.com)  
 704-529-0123

Trutegra can provide your custom automation solutions. Whether looking to build a system from scratch, automate an existing process or retrofit with new technology, Trutegra brings years of industry experience and a broad base of practical knowledge to the challenge. Our seasoned engineers and professional approach will help you maximize success while minimizing cost and risk. Our engineering professionals can help execute all phases of your automation project. Whether you need full, turn-key service, or just reinforcements, let Trutegra help make your project a success.





**UAS Automation Incorporated****236****NASF MEMBER**

 2089 Heide Dr.  
Troy, MI 48084 USA  
 [www.uasmfg.com](http://www.uasmfg.com)  
 248-377-1655




UAS Automation Systems Inc operates in the diversified industrials industry. The company is engaged in offering technical solutions for surface treatment, wet processing, and material handling applications. The products offered by the company are barrel systems, rack systems, and basket systems.

**Univertical LLC****437****NASF MEMBER****EXECUTIVE PARTNER**

 203 Weatherhead St.  
Angola, IN 46703 USA  
 [www.univertical.com](http://www.univertical.com)  
 260-665-1500




Since 1938, Univertical continues to be committed to manufacturing superior quality Copper anodes and Copper and Nickel chemicals for the worldwide plating industry. Whether it's through the invention of the titanium and graphite baskets, the introduction of phosphorized anodes, or novel manufacturing techniques, we have always been the leader in the industry.

**US Ecology, a Republic Services company****348**

 18500 N Allied Way Suite 300  
Phoenix, AZ 85054 USA  
 [www.usecology.com](http://www.usecology.com)  
 248-946-1029




For 70 years, US Ecology has been a leader in environmental solutions. Now a Republic Services company, we offer the most comprehensive suite of treatment, disposal and recycling of hazardous, non-hazardous and radioactive waste, leading emergency response and standby services along with complementary field and industrial services. Providing safe and compliant solutions to protect human health and the environment that help our customers achieve their sustainability goals. [www.usecology.com](http://www.usecology.com)

**Uyemura International Corporation****507****NASF MEMBER**

 240 Town Line Rd.  
Southington, CT 06489 USA  
 [www.uyemura.com](http://www.uyemura.com)  
 860-793-4011




Uyemura displays Topseal 693 silver anti-tarnish: withstands high heat and voltages without compromising contact resistance or resistivity. C100 silver dispersive plating technology retains silver's conductive properties, protects connectors and other components against tarnish, friction, wear. Miralloy is industry's cost-effective alternative to silver, palladium and nickel for high frequency and other applications; Rhoduna PT platinum/rhodium alloy has whiteness and reflectivity virtually equal to high quality rhodium coatings, with negligible porosity. Also, Niphos bright nickel-phos alloy. For HF applications: Miralloy, industry's best alternative to silver, palladium and nickel.

**Vanaire****712**

 10141 Bunsen Way  
Louisville, KY 40299 USA  
 [vanaire.com](http://vanaire.com)  
 502-491-3553

Vanaire Celebrating 50 years as an Industry Leader of premier Air Pollution Corrosion Resistant Ventilation Systems. We build our systems from corrosion resistant materials such as PVC, "FM" approved PVC, CPVC, PVDF, Fiberglass and Polypropylene. Vanaire has worked closely with large Companies as well as small throughout United States, Mexico, Canada and Overseas. No project is too large or small for Vanaire's Engineering Department to design the correct Air Pollution Control System for your project. Vanaire also offers Installation of its systems and a full Preventive Maintenance Program.

**Viron International Corporation****462**

 505 Hintz Rd.  
Owosso, MI 48867 USA  
 [www.vironintl.com](http://www.vironintl.com)  
 989-723-8255

Viron International specializes in corrosion resistant ventilation systems, manufactured out of PVC, Poly Pro, CPVC, FRP & SST materials. Viron has continuously worked to evolve with our customers through the development and application of the latest technology and strategies to design the best possible products.

**Warco Inc.****637****NASF MEMBER**




 821 Sivert Dr.  
Wood Dale, IL 60191 USA  
 [www.warcoinc.net](http://www.warcoinc.net)  
 547-549-8695

WARCO, INC. (Booth #236) will display advanced filtration equipment and media. The WARCO Filter™ line encompasses lined or thermoplastic disc, cartridge, standard bag, and high-performance pleated element systems. Systems are equipped with heavy duty, all thermoplastic seal-less mag-drive pumps to protect precious plating solutions. WARCO is the benchmark for high performance filtration systems, elements and media.

## Water & Wastewater Equipment Company

564

### NASF MEMBER


 837 E 79th St.  
Cleveland, OH 44103 USA  
 [www.wwe-co.com](http://www.wwe-co.com)  
 440-542-0972

Water and Wastewater Equipment Company has been providing efficient, cost-effective, and compliant solutions to water and wastewater treatment applications for over 30 years. Our technical analysts and designers are experienced in every phase of fabrication and installation. Whether you require upgrades for an existing wastewater treatment system, are looking for design, build, and installation expertise, require a piece of equipment such as a clarifier or filter press, or want help understanding compliance issues, we can help. Our Water/Wastewater Treatment Systems are used to treat millions of gallons of water daily. WWE services numerous industries throughout all areas in North America and we have designed for plants around the world.

## Wegener Welding, LLC

460




### NASF MEMBER

 16W301 S Frontage Rd.  
Burr Ridge, IL 60527 USA  
 [www.wegenerwelding.com](http://www.wegenerwelding.com)  
 5630-789-0990

WEGENER Welding is a leading supplier of high-quality welding, fabrication, and testing equipment for thermoplastic sheet and pipe. With a product range that includes hot gas welding equipment, sheet and pipe butt fusion machinery, bending machines, socket and electrofusion equipment, AC & DC spark testers, and custom solutions, WEGENER Welding is your one stop source for all of your plastic welding needs.

## Witt Lining Systems

721




 2211 E.L. Anderson Blvd. PO Box 488  
Claremore, OK 74018 USA  
 [www.wittliners.com](http://www.wittliners.com)  
 918-342-0083

With 50 years of experience, Witt Lining Systems and our PVC lining solutions can solve your corrosion problems. Whether you have a tank, containment pit, trench, or floor area, Witt has the answer you are looking for. Our innovative materials including Spectra Blue®, Exceline® and Koroseal® PVC can provide linings for corrosion protection in most any environment. Witt Lining Systems provides the industry standard for Chrome plating drop-in liners, combining Koroseal® liners with LFP CrossFilm® Skirts, protecting our customer's tank investments for years, while keeping their employees safe.

## WMV Dip Spin Inc.

137




### NASF MEMBER

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ARTEK Surfin Chemicals LTD.....	550
Atotech USA, LLC .....	107
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Plating International Inc. ....	632
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BroCo Products Inc.....	521
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Dynamix Incorporated .....	643
Eastmen Chemicals .....	355
Gilbert & Jones Co.....	536

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Hunter Chemical .....	336
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Atotech USA, LLC .....	107
BroCo Products Inc.....	521
Dynamix Incorporated .....	643
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Metal Chem Inc. ....	108
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ARTEK Surfin Chemicals LTD.....	550
Atotech USA, LLC .....	107
BroCo Products Inc.....	521
Columbia Chemical Corporation.....	333
Dipsol of America, Inc. ....	414
Dynamix Incorporated .....	643
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Metal Chem Inc. ....	108
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Wuhan Youngde Chemical Co., Ltd. ....	720

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ARTEK Surfin Chemicals LTD.....	550
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Columbia Chemical Corporation.....	333
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Luster-On Products, Inc. ....	501
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PHTPlus by TrinSoft ....	554
PriceWalgren & Jessup (Divisions of George Koch Sons LLC) ....	343
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Dynamix Incorporated ....	643
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Pavco Inc. ....	321
PHTPlus by TrinSoft ....	554
PriceWalgren & Jessup ....	343
Ryotronics Inc. ....	245

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Luster-On Products, Inc. ....	501
PHTPlus by TrinSoft .....	554
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Process Technology .....	101
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Pavco Inc. ....	321
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Precious Metal Sales Inc. ....	136
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Crossair, LLC .....	120
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GOAD Company.....	513
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IPEX USA LLC .....	639
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Crossair, LLC .....	120
Enviro Solutions .....	338
Fab-Seal Industrial Liners Inc. ....	539
GPR Wet Process Group .....	607
Hendor - PE Inc. ....	449
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Lanco LLC.....	313
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Met-Chem, Inc.....	102
Moonstone Enterprises Inc.....	323
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GPR Wet Process Group .....	607
J. Mark Systems, Inc. ....	631
Kontek Process Water Management..	422
KraftPowercon .....	509
MacDermid Enthone .....	301
Met-Chem, Inc. ....	102
Moonstone Enterprises Inc. ....	323
ResinTech, Inc. ....	229
Ryotronics Inc. ....	245
SIRCO Industrial Inc. ....	545
Therma-Tron-X, Inc. ....	701
Trionetics Inc. ....	561
US Ecology, a Republic Services company .....	348

Water & Wastewater Equipment Company .....	564
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### Water/Wastewater Treatment Chemicals

Alar Water Treatment LLC .....	349
Atotech USA, LLC .....	107
Brenntag North America .....	723
BroCo Products Inc. ....	521
Clean Harbors .....	551
Dynamix Incorporated .....	643
Enviro Solutions .....	338
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Harrington Industrial Plastics .....	741
Haviland Products Company .....	213
Jasco Chemical Inc. ....	543
Kontek Process Water Management..	422

Luster-On Products, Inc. ....	501
MacDermid Enthone .....	301
Metal Chem Inc. ....	108
Moonstone Enterprises Inc. ....	323
ResinTech, Inc. ....	229
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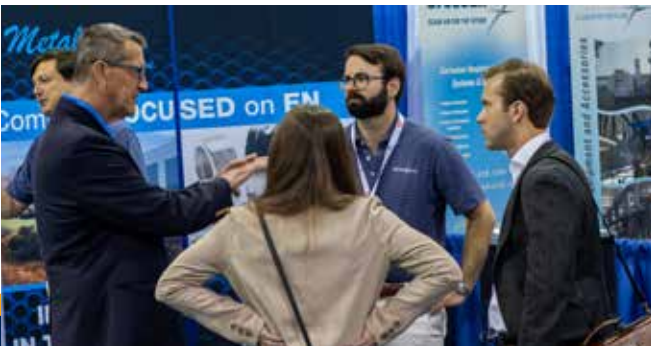
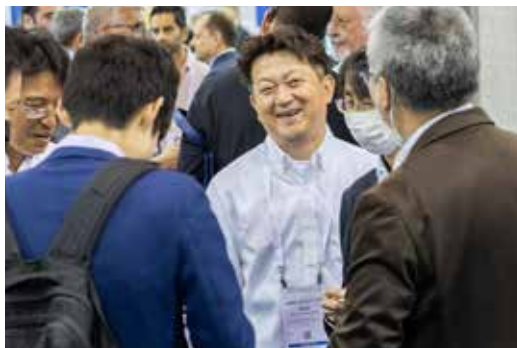
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# NASF PROGRAMS, INITIATIVES, & PARTNERS



## Get Involved with NASF

NASF has many ways for you to meet new customers, expand your supplier base, find (or train) new employees, learn or perfect a skill, or explore a new finishing specialty - all while building your identity as a leader within the industry's most respected professional association.

Committees are an excellent way to become involved with NASF, and stay current on emerging issues.

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**MACDERMID ENTHONE INDUSTRIAL SOLUTIONS** innovates and manufactures chemical compounds for all surface coating applications including cleaning, activating, brightening, electro and electroless plating, phosphating, anti-tarnishing and rust inhibiting. Our products improve the durability and aesthetics of both metal and plastic surfaces. End use applications for our treatments include aerospace, automotive, electronics, luxury goods, oil / gas and sanitary fittings. In these industries, MacDermid Enthone is the supply chain partner who adds value to your business.



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**MKS ATOTECH** is a global leader in surface-finishing solutions. Through a comprehensive systems-and-solutions approach, the company delivers chemistry, equipment, and service to support diverse industries such as consumer electronics, especially mobile devices and computers; global automotive; communication infrastructure; and many other industrial end-markets.



**CORROTEC INCORPORATED** is celebrating 40 years in business. We design, build, install, and service industrial machinery, focused in the electroplating, anodizing, and phosphating industries. Corrotec's team of engineers, fabricators and skilled trades have earned a reputation as an industry leader by demonstrating knowledgeable designs, rugged manufacturing and superb installations of high-quality finishing systems.



**DYNAPOWER** has grown to become a global leader in the design and manufacture of custom AC and DC power supplies and custom transformers. We provide system solutions ranging in power from 10 kilowatts to 50 megawatts.



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**HAVILAND PRODUCTS COMPANY** offers a complete line of surface finishing chemistry, from nickel, zinc and chrome plating to anodizing and passivates, we have the technologies you're looking for. If we don't have what you're looking for, we can custom formulate it. The Surface Finishing division restarted in 1982 with a single plating process and a promise: Provide the best products possible.



**PAVCO'S** commitment to expanding competitive advantages to our client's operations is stronger than ever with our focus on surface finishing technologies that make the best use of precious resources. HyProTec™ LD is part of our Cobalt-free passivate family. HyProCoat™ 630 is our revolutionary pH insensitive topcoat which greatly extends bath life. Smart Zinc Premier (Chloride Zn), and Decotri (Chloride Trivalent Chromium) are plating systems that use far less energy than industry standard low temperature chloride Zn or hexavalent chromium plating.



**PROCESS ELECTRONICS CORPORATION** manufactures quality UDYLITE Power conversion equipment for all industrial applications. For 55 years, PEC has met demanding requirements with standard and custom designs. Our customer base is global, and we offer unsurpassed after-sale support. From closed-loop, liquid-cooled power centers to portable bench converters, PEC – UDYLITE is the choice for dependable and efficient power. PEC has earned a reputation for providing the best value in high quality conversion equipment, proudly shipping more than 50,000 units globally. At PEC we provide both the most proven technology and unparalleled technical support from our professional staff, in addition to quality parts and service.

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**AMERICAN CRS EQUIPMENT** offers the largest range of high-power, modular, switchmode supplies available in the industry. With units designed to meet the demanding needs of the general metal finishing, automotive, aerospace, nanotechnology, industrial waste treatment and printed circuit board customers, American CRS Equipment is proud to combine customer-specific power conversion and control interface technology with optimal “solutions, support and service.”



**SIDASA ENGINEERING** is one of the world's leading integrated surface treatment company. Our success is driven by more than 58 years experience and our team operating responsibly, executing with excellence, applying innovative technologies and capturing new opportunities for profitable growth. We develop machines to satisfy your needs in many fields of the surface treatment industry. We research for design, manufacturing and commissioning of fully automated plants.



**UNIVERTICAL** has been serving the worldwide plating industry since 1938 with the highest quality, highest purity, and best customer service. Our high-purity anodes, high-purity chemicals, and cyanides are in use all around the globe. You will find our products in 33 states and 18 countries.



## Promoting and advancing a sustainable future for the surface finishing industry

The NASF supports an active government and industry affairs program on a broad range of federal, state and international policy issues. NASF and its member companies have a long history of environmental stewardship.

The association's advocacy activities directly impact decisions affecting finishing and generate savings to member companies. The industry's past successes and ongoing outreach efforts continue to bring significant value to members.

NASF has also developed reports, studies and updates on scientific and policy topics to inform regulatory agencies and decisions at the federal, state and international level. Action on recent priorities includes:

## Monthly Public Policy Updates

The association provides regular updates for members on major legislative, regulatory and broader policy issues affecting the surface finishing industry, keeping the industry current on important developments and trends, virtual seminars and emerging compliance issues.



## Washington Forum

This annual “fly in” event is an opportunity to discuss industry issues and grow working relationships with federal regulatory officials and lawmakers. Members gain timely, strategic insights on important trends and decisions for the industry and share their views directly with decision makers and industry allies.

The Government Advisory Committee (GAC) oversees the coordination of the association’s advocacy efforts that affect the finishing industry, including interaction with global, federal, state, and local legislative and regulatory officials and other policy makers and interested stakeholders.

### Government Advisory Committee

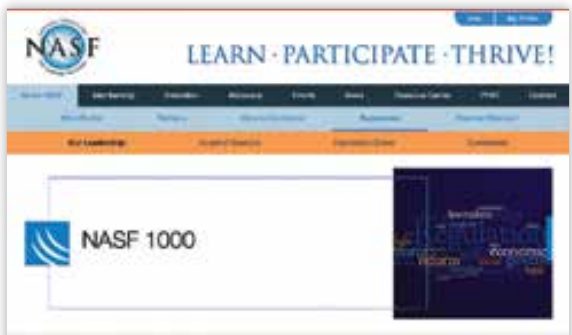
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<b>Becky Bennett</b>		<b>Milt Stevenson</b> Anoplate Corporation

## NASF 1000

NASF launched the NASF 1000 campaign to provide long-term support for the finishing industry’s public policy advocacy activities. As part of the association’s “Surface Technology Initiative,” the NASF 1000 is committed to keeping the industry environmentally and economically sustainable. NASF’s advocacy efforts in recent years have saved our heavily regulated industry over \$2 billion.

The NASF 1000 is a group of leaders who each make an annual contribution to invest in the future viability of the industry. NASF 1000 funds are dedicated exclusively to protecting the industry from unnecessary regulatory burdens; informing lawmakers and regulators on the challenges facing the surface finishing industry; and promoting the environmental, health and safety performance of NASF members.

*None of this is possible without robust support. Please consider an investment in the future of our industry by becoming a member of the NASF 1000.*



# Discover the Value of NASF Membership

Your membership generates a solid return on investment and supports essential programs to advance surface engineering and technology, nationally and worldwide.

NASF members who want to get the most out of membership get involved and stay involved with leaders in business and industry.

## Advantages and Opportunities

### Professional Events

Take advantage of opportunities to connect with companies and industry professionals throughout the finishing supply chain to address common issues.

### Advocacy

Be part of an established and highly-regarded voice promoting the finishing industry's interests on domestic and international regulation and legislation.

### Training & Education

Obtain extensive knowledge of finishing processes and receive training through NASF's education arm, the AESF Foundation, which provides in-person, web-based and customized courses for surface finishing operations of all sizes.

### Research

Access crucial compliance information (for NASF members only) from the Surface Technology Environmental Resource Center (STERC.org), the world's most comprehensive environmental, technical and pollution prevention resource, funded in part by the EPA.

### Communication

Reference an extensive library of industry resources, including print and online publications, the NASF website and the NASF Newsletter.

### Partnerships

Receive complimentary membership in AIAG - the Automotive Industry Action Group - through your NASF membership. Members benefit from a broad network of automotive industry professionals and access to important industry news.

### Volunteer And Leadership Development

Serve on a committee while you advance professionally.

Join NASF today!



## Frequently Asked Questions

- Q.** What does membership cost?
- A.** Cost for each membership type is found on [nasf.org/join/membership-types](https://nasf.org/join/membership-types)
- Q.** When does my membership renew?
- A.** Due notices are sent out by November 1 of your membership year and are due by January 1 of the membership year.
- Q.** What category of membership would I fall under?
- A.** To determine the type of membership that would suit you best, view the next page.
- Q.** How do I join?
- A.** Joining is fast and easy; activate your membership online at [nasf.org/join/membership-types](https://nasf.org/join/membership-types)
- Q.** How do I connect with a local Chapter?
- A.** Full contact information for all local Chapters is located here: [join/nasf-chapters/](https://join/nasf-chapters/)

# NASF Membership Categories



## Corporate

### Job Shop

This membership category applies to businesses whose primary operations are in surface finishing. Job Shops with a Chapter in their area must become members through their local organization. Job Shops without a local Chapter can become at-large members by applying online.

### Suppliers, Consultants and Distributors

This membership category applies to companies engaged in the manufacture, sale and/or development of equipment, materials or processes used in surface finishing. Supplier dues are based on annual sales revenue directly associated with surface finishing.

### Associates, Captives and OEM

This membership category applies to businesses such as captive shops or OEMs that operate a surface finishing operation within their corporation

that is not their sole source of revenue. Associates may also include corporations that do not perform finishing operations, but use a variety of finishes on products they supply to customers.

*\*All corporate memberships apply to all employees that the company designates on the Employee Roster Form.*

## Individual

This membership category applies to individuals who are employed by companies that are primarily industrial users of surface finishing or who are eligible for academic, student, teacher, retiree or honorary memberships.

Individuals eligible for this category generally provide intellectual capital or technical expertise related to the surface finishing industry nationally and internationally. Anyone employed by a business that is eligible to be a Job Shop or supplier member is not eligible for individual membership.

NASF members receive discounts on education courses. Register 5 or more employees and get a 10% discount!

## CALIFORNIA

Metal Finishing Association of Northern California Inc. (MFANC)

Metal Finishing Association of Southern California Inc. (MFASC)

## CONNECTICUT

Connecticut Chapter

New England Chapter of NASF (NENASF)

## DELAWARE

Philadelphia Association of Metal Finishers

## FLORIDA

Florida Finishers Corp.

## ILLINOIS

Chicago Midwest Chapter of NASF (CMCNASF)

## MAINE

New England Chapter of NASF (NENASF)

## MARYLAND

Philadelphia Association of Metal Finishers

## MASSACHUSETTS

New England Chapter of NASF (NENASF)

## MICHIGAN

Michigan Chapter of NASF (MINASF)

## MINNESOTA

Minnesota Association of Metal Finishers (MNASF)

## NEW HAMPSHIRE

New England Chapter of NASF (NENASF)

## NEW JERSEY

Masters' Association of Metal Finishers, Chapter of NASF

Philadelphia Association of Metal Finishers

## NEW YORK

Masters' Association of Metal Finishers, Chapter of NASF

## OHIO

Ohio Association of Metal Finishers (OAMF)

## OPENNSYLVANIA

Masters' Association of Metal Finishers, Chapter of NASF

Philadelphia Association of Metal Finishers

## RHODE ISLAND

New England Chapter of NASF (NENASF)

## SOUTH CAROLINA

Palmetto Southeast Chapter (PSNASF)

## TEXAS

Texas Association of Metal Finishers (TAMF)

## VERMONT

New England Chapter of NASF (NENASF)

## VIRGINIA

Philadelphia Association of Metal Finishers

## WASHINGTON D.C.

Philadelphia Association of Metal Finishers

## WISCONSIN

Wisconsin Chapter of NASF





## A Non-profit Organization Serving as NASF's Training Arm

The AESF Foundation's three core areas are education, research, and scholarship. AESF Foundation was formed in 2006 and offers several distinct learning platforms: Classroom Courses, Web-Based Courses, Home Study Courses and Custom Courses, which are tailored to the individual needs of public and private entities.

AESF is the gold standard in finishing industry education and the exclusive grantor of industry certifications from basic CEF (Certified Electroplater Finisher) to MSF (Master Surface Finisher).



### Choose from 4 Study Platforms:



#### Web-Based Courses

- Foundation courses in a series of web-based sessions
- Live, online interaction with NASF/AESF Foundation instructors and other industry experts
- Sessions take place on pre-determined Tuesdays & Wednesdays between 12:00 PM and 2:00 PM Eastern
- Session recordings are available upon request to students for 30-days after the original posting date if students wish to review or miss live sessions



#### Home Study Courses

- Begin a Home Study training program at any time and complete at your own pace
- Course materials sent electronically to the email address provided during registration
- AESF Technical Director reviews chapter quizzes and provides feedback
- Proctored exams can be taken at your location



#### Classroom Courses

- Live interaction with a certified instructor in a classroom setting
- Taught in select locations throughout the U.S.
- Instruction takes place over 2-4 days (add 1 day for optional exam)



#### Custom Courses

- Custom design a training program to meet your company's needs
- Mix and match 154 available course modules
- An instructor will provide on-site training

For additional information regarding AESF Foundation training and educational programs, visit [NASF.org/education](http://NASF.org/education) or contact [info@NASF.org](mailto:info@NASF.org).

Train key personnel in your company and maximize quality and efficiency with world-class custom course training through the NASF/AESF Foundation.

Key reasons to choose NASF/AESF Foundation Custom Courses for your surface finishing operations...

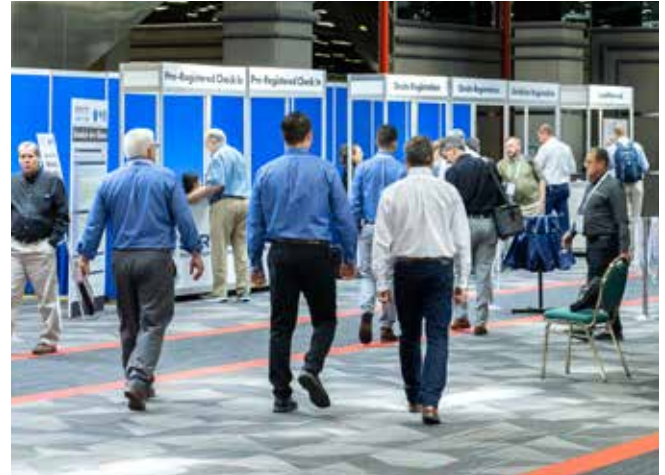
**Updated Technical Content** – With recent updates to content, our courses offer quality information with up-to-date technology and processes used in the industry. AESF has a team of highly qualified instructors who are subject matter experts in the field and prepared to give cutting-edge training to your employees.

**Introductory Training for Line Personnel and New Employees** – Launched in 2016, the Plating Essentials course was developed specifically for line workers and others new to the industry. Focusing on “just the basics”, this course is a great segue to more advanced trainings and those interested in becoming CEF or MSF certified.

**Industry Certification** – Since 1969, hundreds of companies have taken advantage of the society’s education and certification programs through the NASF/AESF Foundation. Job Shops, metal finishing supply companies and captives can demonstrate a range of technical knowledge to potential customers/auditors. Our certifications include:

- CAIf: Certified Aluminum Finisher
- CAF: Certified Airline/Aerospace Finisher
- CEF: Certified Electroplater-Finisher
- MSF: Master Surface Finisher

**Our Customers include Global Companies, Defense, Others** – With past customers such as the United States Department of Defense, Royal Canadian Navy, Apple, Honeywell, Boeing, Delta



Air Lines, dozens of metal finishing job shops, chemical suppliers, equipment manufacturers and more, we are equipped and proud to provide effective education for the entire value chain.

**Courses** – Choose from the following 12 comprehensive courses or mix and match modules from separate courses to further customize your training:

- Airline & Aerospace Finishing (CAF)
- Aluminum Finishing
- Chromium Plating for Engineering Applications
- Corrosion & Accelerated Corrosion Tests
- Electroforming
- Electroless Deposition
- Electroplating & Surface Finishing (CEF)
- Industrial & Precious Metals Plating
- Plating Essentials
- Pollution Prevention
- Wastewater Treatment
- Zinc and Zinc Alloy Plating

These courses can be delivered to you in person or online, depending on your preference. Our highly trained, devoted staff stands ready to discuss and prepare a training program that suits your specific needs. Even topics that are not within our current offerings can be custom produced for you. Please contact us today at [info@NASF.org](mailto:info@NASF.org).

Starting with the Certified Aerospace Finisher (CAF) Certified Aluminum Finisher (CAIF) and Certified Electroplater-Finisher (CEF) exams, students can progress to the Master Surface Finisher (MSF) credential by passing five of the additional exams from AESF's comprehensive educational offering. The following describes the several, industry-recognized credentials offered by AESF.

### Certified Aluminum Finisher (CAIF)

Complete Parts 1 & 2 of the Aluminum Finishing course and pass the CAIF Exam

### Certified Aerospace Finisher (CAF)

Complete Parts 1 & 2 of the Airline & Aerospace Finishing course and pass the CAF Exam

### Certified Electroplater-Finisher (CEF)

Complete Parts 1 & 2 of the Electroplating and Surface Finishing course and pass the CEF Exam

### Master Surface Finisher (MSF)

Individuals pursuing their MSF designation will complete a total of six exams

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**ECOAT | POWDER | LIQUID**

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**TTX**



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**Mark your calendar and stay abreast of new developments in the months to come on [NASF.org/events](https://nasf.org/events).**



### **NASF Washington Forum**

**Oct 30–Nov 1, 2023  
Washington, DC USA**

Participants of the Washington Forum receive in-depth policy updates from political and policy insiders, industry experts and regulators, then meet with Senators, Representatives and senior congressional staff to discuss the future of the surface technology industry.

Don't miss your opportunity to gain actionable insights on emerging policy and supply chain developments, and influence decisions that impact manufacturing and the future of your business.



### **NASF Leadership Conference**

**March 3–6, 2024  
Puerto Rico, USA**

NASF members look forward to this mid-winter event that provides a mix of business sessions and networking opportunities. The relaxed atmosphere is conducive to the exchange of ideas and collaboration, as well as the formation of long-lasting business relationships.

Business sessions will include information from experts on a range of topics and issues facing the surface finishing industry.

**SAVE THE DATE!**



### **SUR/FIN**

**June 4–6, 2024  
Atlanta, GA USA**

The powerhouse event of the surface finishing industry.

Join business leaders, visionary thinkers, and the who's who of the industry as we delve into pressing issues and explore the latest cutting-edge technologies.

### **Chapter Events**

A listing of Chapter events is provided on the NASF website at [nasf.org/events/chapter-events](https://nasf.org/events/chapter-events).



Each year NASF recognizes excellence in the Finishing Industry by presenting a variety of awards.

### The 2023 NASF Award Winners are:



**Peter Tremmel**

*Accu-Labs, Inc.*

**Tom Laken**

*Finishing Plating Services*



**Christian Richter**

*The Policy Group*

**Jeff Hannapel**

*The Policy Group*



**Timothy Hall, PhD**

*Faraday Technology*



**Patrick Hayden**

*Unimetal Surface Finishing, Inc.*



**George Gilbert**

*Gilbert & Jones, Inc.*

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**NEW**

# Innovation in Decorative Trivalent Plating

## **TriCOL Reclaim<sup>®</sup>**

**VISIT  
BOOTH 333**

### *White Trivalent Chromium Plating Process*

Third Party Tests Run by Tier 1 OEM Supplier	Columbia Chemical TriCOL Reclaim <sup>®</sup>
CASS	>60 hrs
High Chloride Corrosion (ASTM B995)	>336 hrs
Fretting abrasion	Passed 5000 strokes
Car Wash	Minor hairlines
NSS (affected by post dip)	>1000 hrs

- **Chloride Based System for Exterior Color Stability**  
High performing chloride based system offers superior exterior color stability and performance over sulfate systems.
- **Unique Formulation – Prevents Buildup of Counterions**  
Specific gravity does not increase over time - allows for reclamation. Use with closed loop system can also eliminate Chrome, Ammonia and Boric Acid concerns.
- **Brightest Trivalent White**  
Revolutionary new process results in the brightest white appearance and high L\*a\*b\* color values.
- **Exceptional Cost Savings – Comparable to Hex Chrome**  
Average savings of 40 - 60% over traditional trivalent chromium processes.
- **Free From Chrome Dust Mess**  
Single liquid additive eliminates chrome dust exposure.

### **Addresses Environmental Stewardship**

**Innovative technology developed to allow reclaim and recovery within a closed process cycle to address evolving regulatory concerns.**

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**CHEMICAL**  
Simplifying Surface Finishing<sup>®</sup>

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