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June 6–8, 2023 | Cleveland, Ohio



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Anode Products for Electroplating

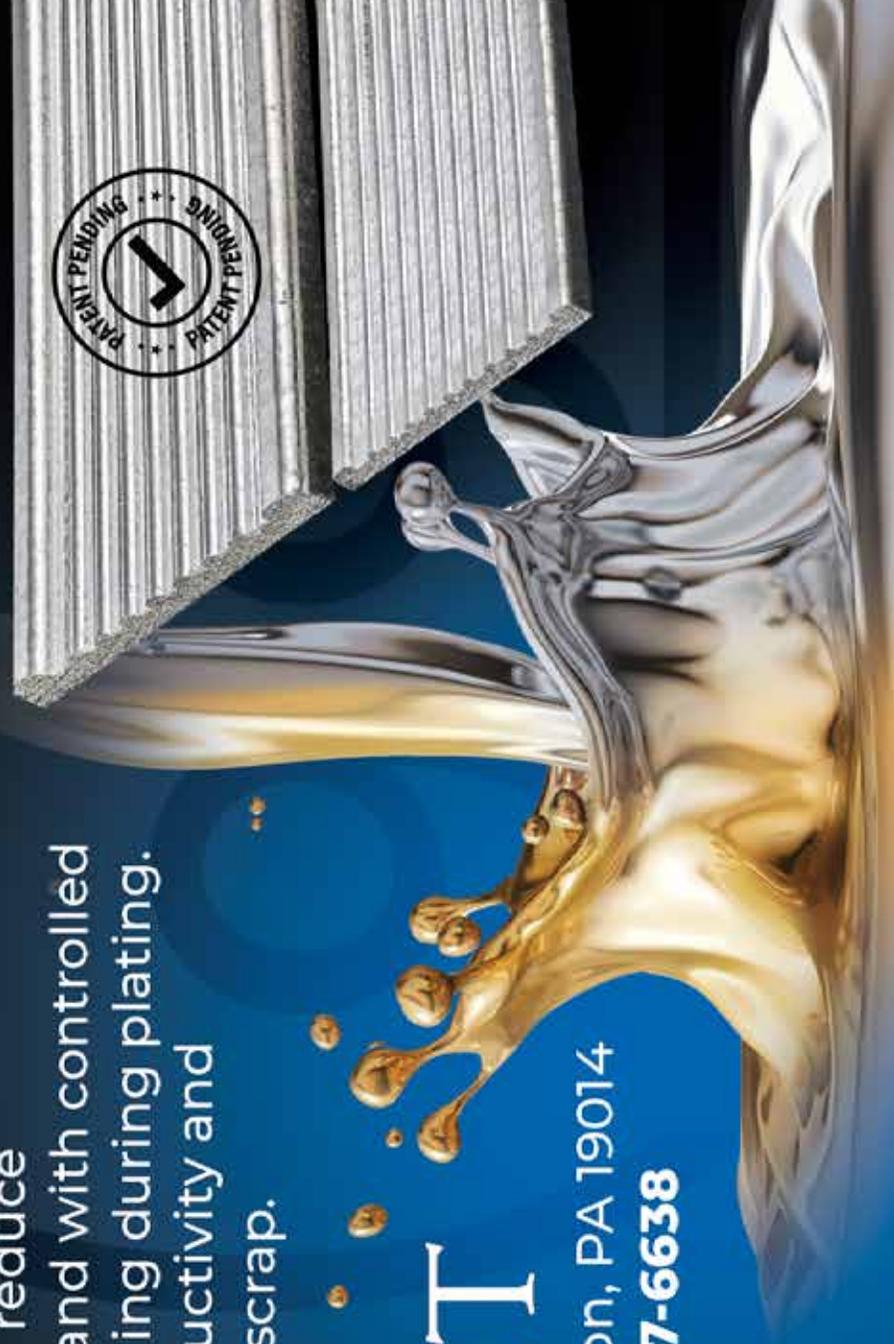
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Welcome to SUR/FIN® 2023!

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 Respeption 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
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529

LEGENDARY

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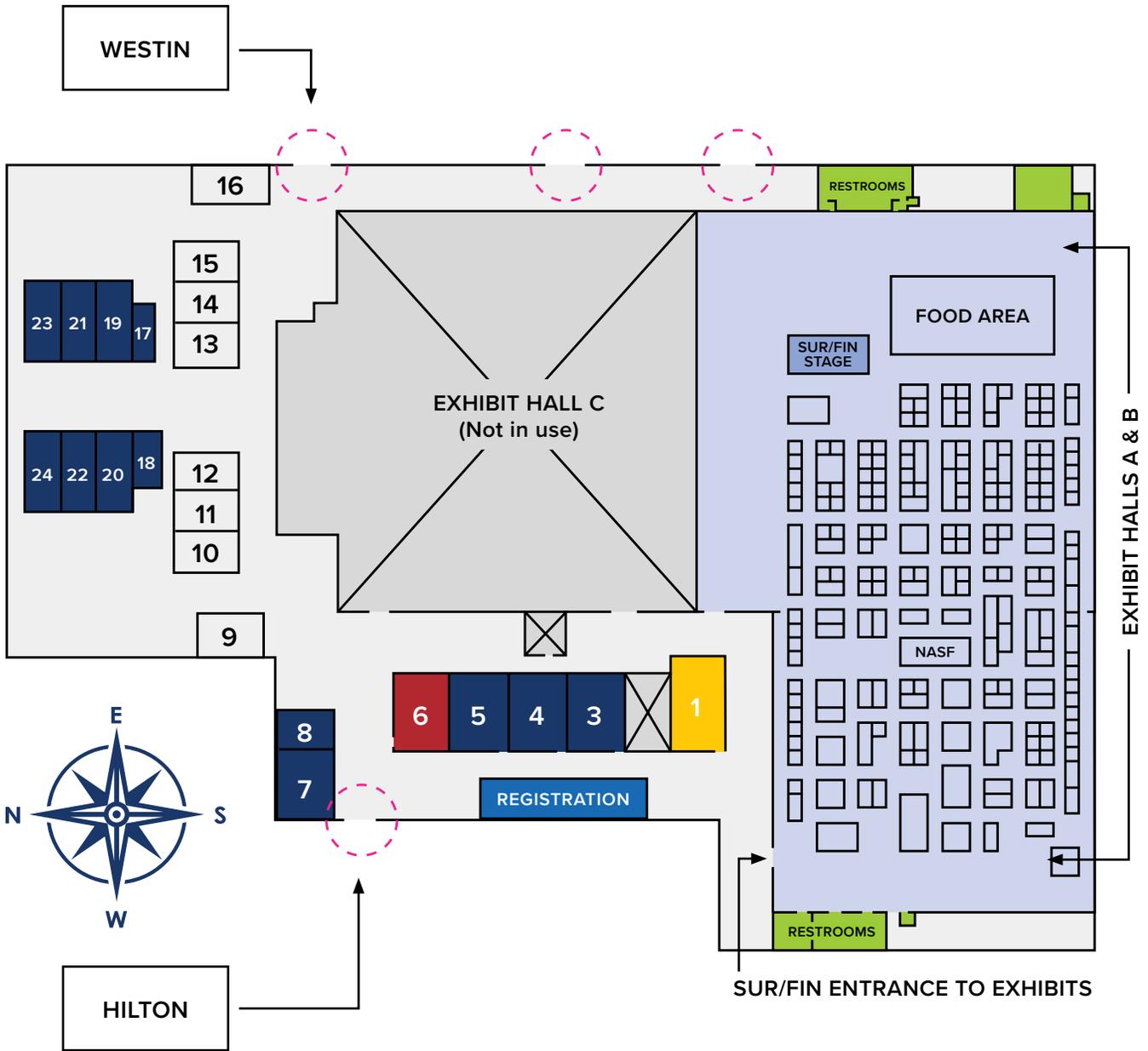
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HUNTINGTON CONVENTION CENTER MAP FOR SUR/FIN



GENERAL

Map Key

- | | |
|---|--|
|  Aluminum Finishing Course |  Registration |
|  Technical Conference Sessions |  SUR/FIN Stage |
|  CEF Course |  Convention Center Access |
|  SUR/FIN Exhibits |  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

Sponsored by PAVCO

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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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
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648	Druseidt – Intercon USA Inc.
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455	DuPont
643	Dynamix Incorporated
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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 (Hurmng 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

LIST OF EXHIBITORS (M-Y)

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

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

CONFERENCE SESSIONS

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

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

11:00 AM - 12:00 AM – Surface Finishing Boot Camp I
Show Floor Stage

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

CONFERENCE SESSIONS

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

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

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

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

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 | Sponsored by Pavco and Microfinisher Co.

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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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 www.thedanglerguys.com

 989-362-0846

For the last 20 years, The Dangler Guys has supplied the best products blended with outstanding customer service and superior technical support. The Dangler Guys is built on a foundation of optimum efficiency, state of the art equipment and personnel. We stand behind our product and continue to grow our reputation in the metal finishing industry.

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

 7590 Discovery Ln.
Concord, OH 44077 USA

 americas.denora.com

 440-710-5300

The surface finishing industry demands high-quality anodes to provide superior plated components. De Nora DSA® anodes are tailored with technically advanced, precious metal formulations applied on Grade 1 titanium substrates. Our anodes are durable, lightweight, and reliable, and provide a superior alternative to soluble and lead alloy anodes. De Nora is committed to meeting the customers' production needs and requirements. We strive to meet the customers' parameters for anode plating performance, custom geometries, predictable lifetime, timely delivery, and competitive price.

Dipsol of America, Inc.**414****NASF MEMBER**

 34005 Schoolcraft Rd.
Livonia, MI 48150 USA

 www.dipsolamerica.com

 734-261-0633

Dipsol is a global chemical supplier recognized for our innovation of market-leading electroplating technologies and chemicals for the surface finishing industry. We've earned the trust of plating applicators and the end-users with products manufactured to the highest standards and backed by our professional and knowledgeable technical support staff. Our portfolio of electroplating processes is approved by the automotive, aerospace, heavy industry, and other major OEMs and Tier suppliers for exceeding the corrosion, durability, and functional performance requirements for their components.

Druseidt – Intercon USA Inc.**648****NASF MEMBER**

 1125 Fir Ave.
Blaine, WA 98230 USA

 www.intercon1978.com

 800-665-6655

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**

 3630 E Kemper Rd. PO Box 68809
Sharonville, OH 45241 USA

 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**

 455 Forest St.
Marlborough, MA 01752 USA

 www.electronics.dupont.com

 508-481-7950

Solving customers' critical component finishing challenges. Full process solutions utilizing DuPont's metallization and imaging portfolio and deep technical and application know-how. Process solutions designed for barrel, rack or continuous plating processing.

Dynamix Incorporated**643**

 91 Esna Park Dr. Unit 7
Markham, ON L3R 2S2 Canada
 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**

 85 Meadowland Dr.
South Burlington, VT 05403 USA
 www.dynapower.com
 802-860-7200

Powering a Cleaner Planet: We're a trusted leader in all types of power conversion and energy storage. Our products energize and strengthen vital industries such as hydrogen, e-mobility, energy storage, mining, metal finishing and defense, all while helping to shape a shared vision of a clean energy future. With headquarters and a 150,000-square-foot vertically integrated facility in Vermont, USA, we design, manufacture, and test a wide range of power solutions while providing an array of aftermarket services focused on continuous reliability and efficiency.

Eagle Engineering Ltd.**613**

 Unit D3 Haybrook Industrial,
Estate Halesfield 9, Telford, Shropshire,
TF7 4QW United Kingdom
 www.platingbarrels.com
 +44 0 1952 586478

Eagle Engineering is a design and manufacturing company specializing in the production and supply of top-quality plating barrels, dangles, and plating barrel units. Our innovative designs and use of high-quality materials result in longer-lasting, electroplating barrels with the highest quality performance. Eagle Engineering is a UK-based family business with over 20 years' of experience designing and supplying the highest quality barrel units and plating equipment worldwide.

Eastmen Chemicals**355****NASF MEMBER**

 403 B B wing Sumit Samarth Arcade
Goregaon West, Mumbai Maharashtra,
400104 India
 www.eastmenchemicals.com
 +91-9819254244

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**

 510 CHURCH ST
NOKOMIS, FL 34275 USA
 enduracking.com
 941-488-8277

Endura is dedicated to helping our customers improve racking and unranking efficiency, improve process and part finish quality, and control overall racking costs. Endura racking machines and racks are custom designed to fit your needs.

Enviro Solutions**338**

 625 Humble Ave.
San Antonio, TX 78225 USA
 www.envirosolutions.com
 210-696-6300

"For all your water treatment systems needs, we're here." Enviro Solutions offers industrial wastewater treatment systems such as filter presses, filter plates and cloths, belt presses, as well as other dewatering systems and equipment, clarifiers, reverse osmosis systems, membranes, demineralizes, clarifiers, tanks, pumps, mixers and more, new or used.

EPI Electrochemical Products Inc.**365****NASF MEMBER**

 17000 W Lincoln Ave.
New Berlin, WI 53151 USA
 www.epi.com
 262-786-9330

Since 1954, EPI has been an innovator in the development and manufacture of electroplating, black oxide, passivation, rust preventatives, and metalworking products for global companies and craftsmen alike.

EPLAS Electroplating Plants**461**

 Gorükle Sanayi Bölgesi Dumlupınar Mh. Mevlana Cd.

No: 8a Nilüfer / Bursa / TURKEY

 www.eplas.com

 +90 224 441 82 60

EPLAS is a leading and an expert company that specializes in Surface Treatment Technologies and Galvanic Systems where it Produces All Over the World.

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

 4221 Courtney Rd.
Franksville, WI 53126 USA

 www.epsi.com

 262-748-4357

EPSI is the industry leading provider of quality masking, hanging and racking solutions. Whether you are a new or existing customer rest assured that we have the knowledge, experience & dedication to provide you with the right solution.

ES3**733****NASF MEMBER**

 98 Ignico Drive
Warner Robins, GA 31093 USA

 www.es3inc.com

 478-922-1460

ES3 is a niche engineering firm providing specialized design, development, & fabrication of products for aerospace & other heavy industry sectors founded in 2000. ES3 has a purposeful business mission—to improve the performance, maintenance, & supply of mission-critical & safety-of-flight components while reducing the environmental impact of aerospace production processes & the hazardous exposures of aviation maintenance crews. ES3 operates more than 200,000 sq ft of customized office, laboratory, and production facilities in 7 locations including CA, UT, GA, OK, & Vienna, Austria.

Evoqua Water Technologies**748**

 210 Sixth Ave. Ste. 3300
Pittsburgh, PA 15222 USA

 www.evoqua.com

 724-772-0044

Evoqua offers a broad range of solutions to help manufacturers meet the industry's demanding needs for high-quality water and advancing an environmentally friendly stewardship of a valuable natural resource. Evoqua's wastewater ion exchange systems and capital equipment are used to remove hazardous components, allowing the treated rinse water to be recycled back to the rinse baths or discharged to the POTW.

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

 6121 Highway 177
Shawnee, OK 74804 USA

 www.fabseal.com

 405-878-0166

Our PVC lining systems are used for both primary & secondary containment, custom fabricated to fit your needs no matter how big or small. We use radio frequency sealing technology, to fabricate our liners, which saves our customers a quarter of the cost of recoating. With onsite fabrication, install time is cut largely meaning less downtime. We use a variety of hi-tech materials to serve a variety of plating, water/waste, chemical & petroleum industries. Polyvinyl Chloride is the backbone of our industry & gives us the capability to provide the quickest & economical way for containment.

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

 2865 Newnan Rd.
Carrollton, GA 30116 USA

 www.fangphos.com

 770-832-3979

Fang Phos, Inc. strives to offer the highest quality chemical products for your business needs. We have an established supply chain that allows us to have a consistent supply of the materials you need for your processes.

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

 6521 Storer Ave.
Cleveland, OH 44102 USA

 www.fantaequip.com

 216-281-1515

Fanta Equipment manufactures the legendary Napco, Udylite, New Holland and Harshaw products. We offer complete turnkey systems. Don't have time to wait for a new machine? Check out our rebuilt machines complete with a one-year warranty. From racks to barrels, hoist lines to return types, or spin dryers, we have the product you need. Stop by and see our flagship return type automatic Cyclemaster machine cycling in our booth along with a variety of New Holland and Harshaw spin dryers on display.

Filter Pump Industries**127****NASF MEMBER**

 7932 Ajay Dr.
Sun Valley, CA 91352 USA

 www.filterpump.com

 818-504-2391

Filter Pump Industries is known as one of the leading manufacturers of pumps, vessels, filtration systems, and filters. FPI has supplied a vast spectrum of fluid management systems to the chemical processing and metal finishing industries for over 50 years. Superior quality, custom designs, and engineering service, along with in-house manufacturing capabilities and attention to detail, ensure our customers will receive the highest quality work.

Fischer Technology**433****NASF MEMBER**

-  750 Marshall Phelps Rd.
Windsor, CT 06095 USA
-  www.fischer-technology.com
-  860-683-0781

FISCHER is recognized as a leading innovator of precise, high-quality products for coating thickness measurement, material analysis, nanoindentation testing and material testing. View our full line of instruments dedicated to the plating and surface finishing industry. We welcome the opportunity to demonstrate the features and benefits of our instruments.

Flux Pumps Corporation**365****NASF MEMBER**

-  300 Townpark Dr. Ste. 130
Kennesaw, GA 30144 USA
-  www.fluxpumpsusa.com
-  800-367-3589

Pumping, emptying, mixing, filling and metering -- when liquids are set in motion requirements quickly become diverse. Your priority - a smooth running process. That is where FLUX comes in. Recognized across the globe for our quality and safety, our products might be best known for their ability to stand the test of time.

Gannon & Scott**749****NASF MEMBER**

-  33 Kenney Dr.
Cranston, RI 02920 USA
-  www.gannon-scott.com
-  401-463-5550

Are unknowns in your precious metal recovery weighing you down? Are you getting the total value from your waste streams? Was your material processed responsibly? And will this come back to haunt you? Letting these questions go unanswered can potentially put your business at risk. You deserve a partner who provides peace of mind. Our commitment to our customers, our industry, and the world we live in ensure we fully recover your precious metals while dramatically reducing environmental impact. Why do we do it? Because you deserve the freedom to focus on growing your business.

GF Piping Systems**337****NASF MEMBER**

-  9271 Jeronimo Rd.
Irvine, CA 92618 USA
-  www.gfps.com
-  800-854-4090

GF Piping Systems is a leading provider of high-quality piping systems products, offering specific system solutions in a wide range of industries. Our components for the conveyance, measurement, and control of liquids are always an integral part of complete solutions. Specific products include plastic pipe and fittings, valves, actuators, rotameters, fabrications, fusion joining technology (machines), secondary containment, flow monitoring and process control instrumentation.

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

-  35 Peter Ct.
New Britain, CT 06051 USA
-  www.gilbertandjones.net
-  860-832-8550

Gilbert & Jones is a proud Responsible Distributor of the NACD. We are committed to the advancement of chemical stewardship through integrity, security, environmental, health and safety aspirations. Who We Are Gilbert & Jones is an industry veteran, supplying more than 150 inorganic specialty chemicals and equipment nationwide since 1991.

GOAD Company**513****NASF MEMBER****PREMIER PARTNER**

-  144 S Kentucky Ave.
Independence, MO 64053 USA
-  www.goadco.com
-  800-733-4623

GOAD provides the longest lasting, most trouble-free process tanks, linings, liners and critical containments available in the world. Patented (U.S. Pat. No.'s 8,133,345; 8,955,711; & 9,278,478) and Patents Pending welding breakthroughs and fabrication methods cannot be found elsewhere. GOAD COMPANY encourages customers to view their tanks, linings, liners, and critical containments as more than a commodity. Consider the Total Cost of Ownership over the product's entire life -- factoring in maintenance cost (repairs and re-linings), downtime, lost production, and the expected life of the products.

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

-  4271 SW 106th Terrace
Ft. Lauderdale, FL 33328 USA
-  www.gpr-wpg.com
-  847-274-2357

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**

 29752 Avenida De Las Banderas
Rancho Santa Margarita, CA 92688 USA
 www.grandis.com
 949-459-2621

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

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

 270 George Washington Hwy.
Smithfield, RI 02917 USA
 www.hannainst.com
 800-426-6287

Hanna's analytical and scientific instruments help surface finishers deliver a quality product while increasing productivity, profitability, and customer satisfaction. Our solutions help the production floor meet specifications, improve efficiency, and achieve accurate testing through rugged, easy-to-use products and technical consultation. Thousands of surface finishers trust Hanna for better chemistry, from start to finish.

Hardwood Line Manufacturing**126****NASF MEMBER**

 4045 N Elston Ave.
Chicago, IL 60618 USA
 hardwoodline.com
 773-463-2600

For over 85 years Hardwood Line Manufacturing has been supplying metal finishing equipment designed and adapted for the specific needs of our customers. We offer a full line of reliable equipment, engineered to deliver optimal quality and productivity. Before and after the sale we provide full support, assisting you with system design, training, installation, chemistry and technical support.

Harrington Industrial Plastics**741**

 14480 Yorba Ave.
Chino, CA 91710 USA
 www.harringtonplastics.com
 909-597-8641

Harrington is a leading distributor of process solutions for corrosive and high-purity applications. Our customer service experts are well-versed in the type of products necessary for applications crucial to the process solutions industry. Harrington has product specialists in Filtration, Pumps, Tanks, Valves and Automation, and Instrumentation that can answer specific product/application requirements. Harrington maintains high levels of inventory nationwide, ensuring that your project needs are met. A Harrington is always available to you 24/7 at 1-800-213-4528.

Hartzell Air Movement**656**

 910 S Downing St.
Piqua, OH 45356 USA
 www.hartzellairmovement.com
 800-336-3267

We're the industrial fan manufacturer for professional engineers and end users who care about their projects and their facilities' air movement.

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

 421 Ann St. NW
Grand Rapids, MI 49504 USA
 www.havilandusa.com
 800-456-1134

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.

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

 117 S Kentucky AVE Suite B
Evansville, IN 47714 USA
 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
 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
 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
-  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
-  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.

INEN Finishing World

737

MEDIA PARTNER

-  199 E. Badger Rd Ste. 100
Madison, WI 53713 USA
-  www.inen.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
-  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
-  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
-  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.

J. Mark Systems, Inc.

631

-  3696 Northridge Dr. NW Ste. 10
Walker, MI 49544 USA
-  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
-  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, IL60632 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
-  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
-  630-760-1000

LS Industries**544**

-  710 E 17th St. N
Wichita, KS 67214 USA
-  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
-  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
-  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
-  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
-  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, Coventya 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
-  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
 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
 +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
 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
 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
 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
 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
 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
 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

 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

 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

 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

 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

 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

 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

 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

 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

 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

 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/

 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

 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

 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

 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

 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

 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

 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

 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.

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

 11142 Addison Ave.
Franklin Park, IL 60131 USA

 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

 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

 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 & 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 to 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
-  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
-  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
-  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
-  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
-  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
-  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
-  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

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

 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

 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

 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

 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/

 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

 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

 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

 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
-  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.

SIDAS A Engineering**237****NASF MEMBER****EXECUTIVE PARTNER**

-  Calle 40 n16 SIDASA
Barcelona, 08040 Spain
-  www.sidasacom
-  +1 66 2305862

SIDAS A 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
-  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
-  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
-  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
-  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
-  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
 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/
 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
 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
 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
 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
 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
 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

 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

 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

 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

 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

 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

 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
-  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
-  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
-  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

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

-  240 Town Line Rd.
Southington, CT 06489 USA
-  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
-  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
-  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
-  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
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
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
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

38855 Tech Hills Dr. Bldg. 450
Farmington Hills, MI 48331 USA

www.wmv.com
248-333-1380

WMV Dip Spin equipment and systems continuously improve and evolve in combination with input from zinc flake, wax, passivation, adhesive, oil and zinc plating chemical suppliers. With over 40 years of experience as a supplier to the surface finishing industry for the application of dip spin coating of bulk and racked parts we have formed a winning combination with chemical suppliers, applicators and OEMs in numerous industries around the globe. The Dip Spin equipment is robust, flexible and backed by our service department and software department with 24/7 support to maximize your productivity

Workflo

352

6724 Commonwealth Dr. Ste. A
Loves Park, IL 61111 USA

www.getworkflo.com
815-986-0163

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Wuhan Youngde Chemical Co., Ltd.

720

Room 1910-1911, A3 Building,
Wanda Plaza, LingJiaoHu,
Hankou Wuhan, 430019 China

www.youngde.com
+86 027-85893688

Youngde Chemical Specializes in surface treatment chemicals, pharmaceutical intermediates, phytic acid, and derivatives. It aims to provide one-stop service in the surface treatment field but can also offer custom chemical manufacturing. Our guiding principle is "Together with you, beyond chemicals!"

Yuken America, Inc.

316

NASF MEMBER

49178 Alpha Court
Wixom, MI 48393 USA

yuken-us.com
248-888-7771

YUKEN America manufactures and distributes a wide range of surface treatment chemicals, such as plating brighteners, passivation agents, corrosion-resistant coating products, and surface treatment agents for electronics parts, in addition to conventional cleaners and pretreatment products.



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ARTEK Surfin Chemicals LTD.....	550
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ARTEK Surfin Chemicals LTD.....	550
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BroCo Products Inc.....	521
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ARTEK Surfin Chemicals LTD.....	550
Atotech USA, LLC	107
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Columbia Chemical Corporation.....	333
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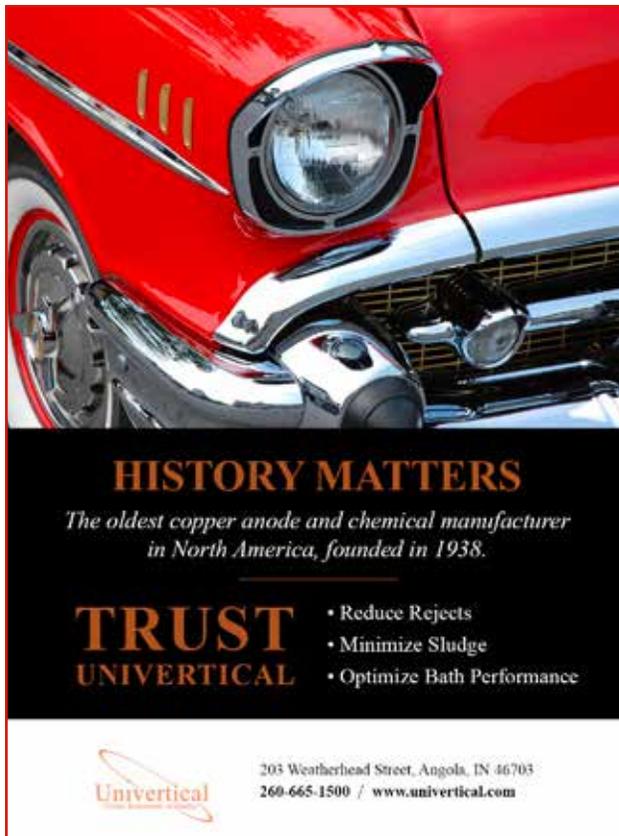
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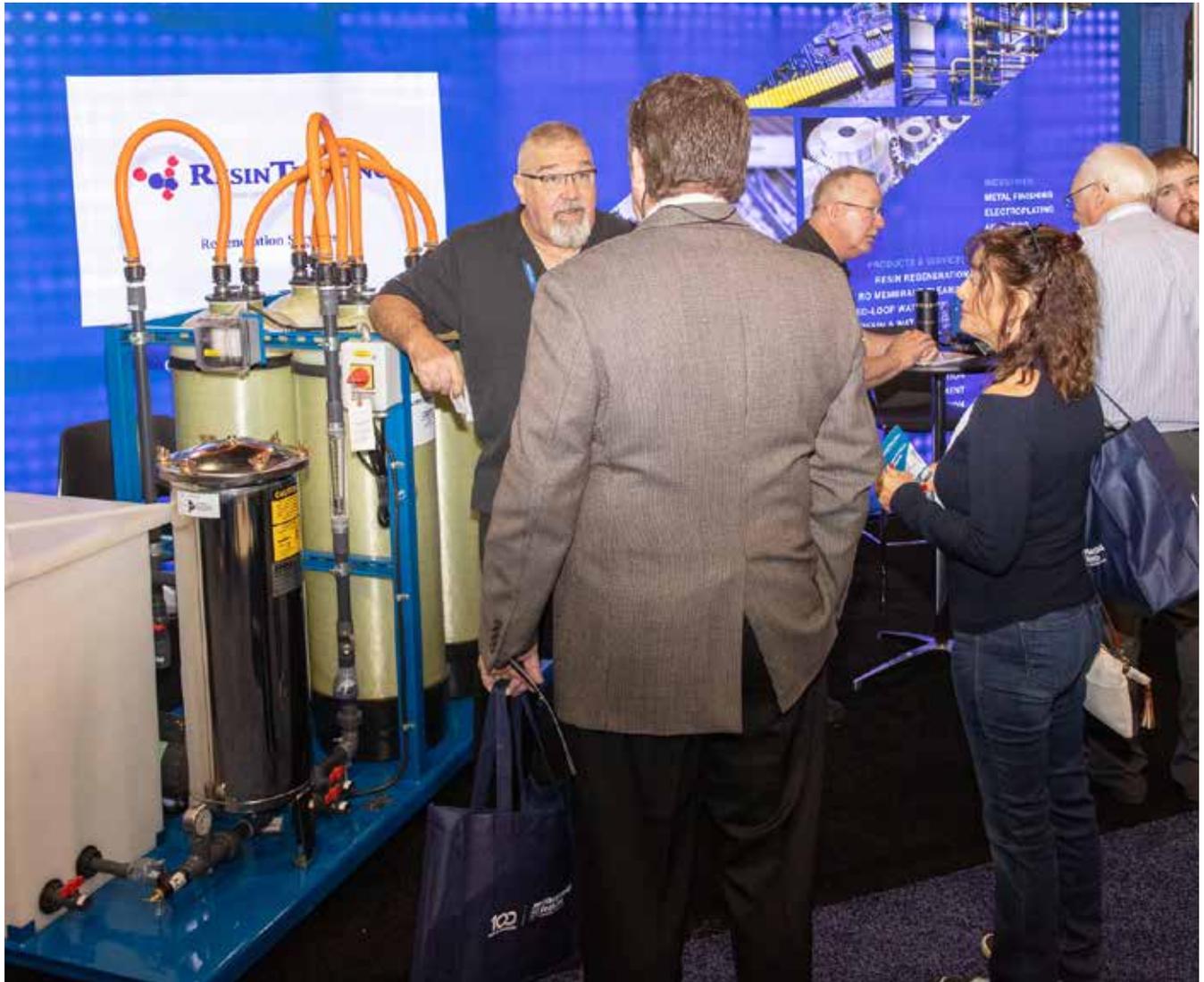
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The NASF supports an active government and industry affairs program on a broad range of federal, state and international policy issues. NASF and its member companies have a long history of environmental stewardship.

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.

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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
- 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
- Q.** How do I connect with a local Chapter?
- A.** Full contact information for all local Chapters is located here: [join/nasf-chapters/](https://nasf.org/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 (MNAMF)

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 Foundations' 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 or contact 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.

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

THE INDUSTRIAL FINISHING EQUIPMENT EXPERTS

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TTX

Your Best Finish Starts With Us!

ECOAT | POWDER | LIQUID

Water and Wastewater Treatment Equipment

BOOTH #701

QR code with TTX logo and 'SCAN ME' button

Circular inset image of industrial finishing equipment



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.

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.

NEW

Innovation in Decorative Trivalent Plating

TriCOL Reclaim[®]

**VISIT
BOOTH 333**

White Trivalent Chromium Plating Process

Third Party Tests Run by Tier 1 OEM Supplier	Columbia Chemical TriCOL Reclaim [®]
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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