

3 EVENTS • 1 LOCATION

# HEAT TREAT | 2025

33RD HEAT TREATING SOCIETY CONFERENCE AND EXHIBITION



ELEVATING PERFORMANCE TOGETHER



INTERNATIONAL CONFERENCE ON RESIDUAL STRESSES

## SHOW GUIDE

OCTOBER 21 - 23, 2025 | DETROIT, MICHIGAN

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CO-LOCATED WITH:



[HeatTreatEvent.org](http://HeatTreatEvent.org)

[ICRSevent.org](http://ICRSevent.org)

[IMATevent.org](http://IMATevent.org)



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- Heat Treatment Salts
- Martempering Oils
- Pack Carburizers
- Vacuum Quench Oils

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## ORGANIZING PARTNER



## MEDIA PARTNERS



# GENERAL INFORMATION

## CONFERENCE REGISTRATION HOURS

Huntington Place Convention Center, Hall B Foyer  
 Sunday, October 19 | 4:00 – 6:00 p.m.  
 Monday, October 20 | 7:00 a.m. – 5:00 p.m.  
 Tuesday, October 21 | 7:30 a.m. – 5:30 p.m.  
 Wednesday, October 22 | 7:30 a.m. – 5:00 p.m.  
 Thursday, October 23 | 7:30 – 11:00 a.m.

## EXPOSITION DATES AND TIMES

Huntington Place Convention Center, Exhibit Hall B  
 Tuesday, October 21 | 9:00 a.m. – 5:30 p.m.  
 Wednesday, October 22 | 9:00 a.m. – 5:00 p.m.  
 Thursday, October 23 | 9:00 a.m. – 12:00 p.m.

## REFRESHMENT BREAKS AND LUNCHES

Mid-morning and afternoon refreshment breaks will be provided each day. Lunch can be purchased on Monday. Lunch is provided for Full Conference registrants on Tuesday and Wednesday, and for anyone who purchased the Meal Package or individual lunch tickets.

### Monday, October 20

- Morning Refreshment Break  
9:30 – 10:45 a.m. | Meeting Space Foyer
- Lunch (Available for purchase)  
11:50 a.m. – 12:50 p.m. | On Own
- Afternoon Refreshment Break  
2:30 – 3:30 p.m. | Meeting Space Foyer

### Tuesday, October 21 – Exhibit Hall B

- Morning Refreshment Break | 10:00 – 11:00 a.m.
- Lunch on the Show Floor | 11:30 a.m. – 1:30 p.m.
- Afternoon Refreshment Break | 2:00 – 3:00 p.m.
- Welcome Reception with Exhibitors | 4:00 – 5:30 p.m.

### Wednesday, October 22 – Exhibit Hall B

- Morning Refreshment Break | 9:20 – 11:00 a.m.
- Lunch on the Show Floor | 11:30 a.m. – 1:30 p.m.
- Afternoon Refreshment Break | 2:30 – 3:30 p.m.

### Thursday, October 23 – Exhibit Hall B

- Morning Refreshment Break | 10:00 – 11:00 a.m.

## TECHNICAL PROGRAM

The only way to view the full IMAT, ICRS, and Heat Treat technical programs is via the mobile app or via the event websites.

### Access all of the following features on your smart phone:

- Search for exhibitors, read their company profiles, and request meetings
- Locate the booths of your favorite exhibitors on the exhibit hall floor plan
- View the technical schedule and search for presentations that interest you
- Create an itinerary and review your saved presentations and exhibitors
- Search for speakers and connect with other attendees at the event
- Complete a survey for each tutorial presentation and the Best Paper!

## MOBILE APP

Download the official event app for Apple and Android devices by searching ‘**IMAT / Heat Treat / ICRS**’.

## STAY CONNECTED AT THE SHOW

Follow show news on Twitter, Facebook, and LinkedIn. Share your photos and videos by using #IMAT2025, #ICRS12, and #HT2025.

## INTERNET ACCESS

Complimentary Wi-Fi access for attendees is available throughout the Convention Center. No password.

# TABLE OF CONTENTS

Thank You to Our Sponsors .....	3
General Information .....	4
Schedule at a Glance .....	6
HT/IMAT/ICRS Exhibitor List .....	12
HT/IMAT/ICRS Floor Plan .....	16
Exhibitor Company Descriptions .....	18



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1 H 1.00794 Hydrogen																	2 He 4.002602 Helium																												
3 Li 6.941 Lithium	4 Be 9.012182 Beryllium											5 B 10.811 Boron	6 C 12.0107 Carbon	7 N 14.0067 Nitrogen	8 O 15.9994 Oxygen	9 F 18.9984032 Fluorine	10 Ne 20.1797 Neon																												
11 Na 22.98976928 Sodium	12 Mg 24.305 Magnesium											13 Al 26.9815386 Aluminum	14 Si 28.0855 Silicon	15 P 30.973762 Phosphorus	16 S 32.065 Sulfur	17 Cl 35.453 Chlorine	18 Ar 39.948 Argon																												
19 K 39.0983 Potassium	20 Ca 40.078 Calcium	21 Sc 44.955912 Scandium	22 Ti 47.867 Titanium	23 V 50.9415 Vanadium	24 Cr 51.9961 Chromium	25 Mn 54.938045 Manganese	26 Fe 55.845 Iron	27 Co 58.933195 Cobalt	28 Ni 58.6934 Nickel	29 Cu 63.546 Copper	30 Zn 65.38 Zinc	31 Ga 69.723 Gallium	32 Ge 72.64 Germanium	33 As 74.9216 Arsenic	34 Se 78.96 Selenium	35 Br 79.904 Bromine	36 Kr 83.798 Krypton																												
37 Rb 85.4678 Rubidium	38 Sr 87.62 Strontium	39 Y 88.90585 Yttrium	40 Zr 91.224 Zirconium	41 Nb 92.90638 Niobium	42 Mo 95.96 Molybdenum	43 Tc (98.0) Technetium	44 Ru 101.07 Ruthenium	45 Rh 102.9055 Rhodium	46 Pd 106.42 Palladium	47 Ag 107.8682 Silver	48 Cd 112.411 Cadmium	49 In 114.818 Indium	50 Sn 118.71 Tin	51 Sb 121.76 Antimony	52 Te 127.6 Tellurium	53 I 126.90447 Iodine	54 Xe 131.293 Xenon																												
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87 Fr (223) Francium	88 Ra (226) Radium	89 Ac (227) Actinium	104 Rf (267) Rutherfordium	105 Db (268) Dubnium	106 Sg (271) Seaborgium	107 Bh (272) Bohrium	108 Hs (270) Hassium	109 Mt (276) Meitnerium	110 Ds (281) Darmstadtium	111 Rg (280) Roentgenium	112 Cn (285) Copernicium	113 Nh (284) Nihonium	114 Fl (289) Flerovium	115 Mc (288) Moscovium	116 Lv (293) Livermorium	117 Ts (294) Tennessine	118 Og (294) Oganesson																												
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# SCHEDULE AT A GLANCE

IMAT AND HEAT TREAT SCHEDULE AT A GLANCE, SPECIAL EVENTS, ASM MEETINGS AND PROTOCOL EVENT LISTING

## SUNDAY, OCTOBER 19

4:00 - 6:00 p.m.	Registration Open	Exhibit Hall B - Foyer
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## MONDAY, OCTOBER 20

7:00 a.m. - 5:00 p.m.	Registration Open	Exhibit Hall B - Foyer
8:00 - 11:00 a.m.	Materials Executive Leadership Forum - Panel Discussion Featuring Industry, Academia & Government Executive Perspectives	310B
9:00 a.m. - 5:00 p.m.	ICRS- 12 Technical Programming	140A, 140B, 140C, 140E
9:30 - 10:45 a.m.	Refreshment Break Open	Meeting Space Foyer
11:00 a.m. - 5:40 p.m.	IMAT Technical Programming	310B, 311AB, 312AB, 313A, 313B, 320, 321, 331ABC, 332, 334, 335
11:30 a.m. - 1:00 p.m.	ASM Leadership Awards Luncheon*	330AB
11:50 a.m. - 12:50 p.m.	Lunch (Available for Purchase)	Exhibit Hall B - Foyer
2:00 - 3:00 p.m.	ASM-TMS Distinguished Lecture: Prof. Federico Rosei, FASM, University of Trieste	310B
2:30 - 3:30 p.m.	Refreshment Break Open	Meeting Space Foyer
3:30 - 4:30 p.m.	ICRS Keynote: David Furrer, Pratt & Whitney	141
4:00 - 5:00 p.m.	ASM 112th Annual Society Meeting	353
5:00 - 6:00 p.m.	IMS General Membership Meeting	320
7:00 -7:45 p.m.	ASM Failure Analysis Society (FAS) General Membership Meeting	Westin Book Cadillac: Woodward AB
7:45 -9:15 p.m.	ASM Failure Analysis Society (FAS) Program Committee Meeting	Westin Book Cadillac: Woodward AB

## TUESDAY, OCTOBER 21

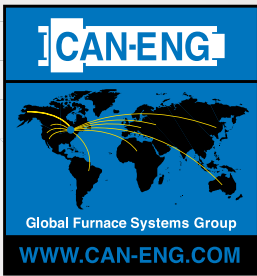
7:30 a.m. - 5:30 p.m.	Registration Open	Exhibit Hall B - Foyer
7:00 - 9:00 a.m.	ASM Women in Materials Engineering Breakfast*	142ABC
8:00 a.m. - 2:30 p.m.	IMAT Technical Programming	310B, 311AB, 312AB, 313A, 313B, 320, 321, 331ABC, 332, 334, 335
8:00 - 9:00 a.m.	The ASM Advanced Materials Manufacturing Committee & ASM Panel: Revolutionary Changes in Materials Manufacturing	310B
9:00 a.m. - 2:20 p.m.	Heat Treat Technical Programming	140E, 140F, 140G
9:00 a.m. - 4:00 p.m.	ICRS - 12 Technical Programming	140A, 140B, 140C
9:00 - 10:00 a.m.	Alpha Sigma Mu Lecturer: Dr. William E. Frazier, President of Alpha Sigma Mu	310B
9:00 a.m. - 6:00 p.m.	Exhibit Hall Open	Exhibit Hall B
10:00 - 11:00 a.m.	Refreshment Break Open in Exhibit Hall	Exhibit Hall B
10:00 a.m. - 2:00 p.m.	ASM DomesDay Competition	Exhibit Hall B - Domesday Area
10:30 - 11:30 a.m.	Edward DeMille Campbell Memorial Lecturer: Prof. Harry Bhadeshia, Cambridge University	310B
11:00 a.m. - 12:00 p.m.	ICRS Spotlight Sessions: Industrial Spotlight Session & Research Spotlight Session	140A, 140B
11:30 a.m. - 1:30 p.m.	Lunch Concessions Open on the Show Floor	Exhibit Hall B
1:00 - 2:00 p.m.	IMS Henry Clifton Sorby Lecturer: Hamish L. Fraser, The Ohio State University	320
2:00 - 3:00 p.m.	Refreshment Break Open in Exhibit Hall	Exhibit Hall B
2:30 - 4:00 p.m.	Joint Panel Session: Opportunities and Barriers for AI in Industry - From Office Work to Manufacturing	Exhibit Hall B - Industry Forum

# SCHEDULE AT A GLANCE

IMAT AND HEAT TREAT SCHEDULE AT A GLANCE, SPECIAL EVENTS, ASM MEETINGS AND PROTOCOL EVENT LISTING

4:00 - 5:30 p.m.	ICRS Emerging Professionals Poster Competition	Exhibit Hall B - Poster Area
4:00 - 5:30 p.m.	Fluxtrol Student Research Competition: Phase 1 - Poster Presentation	Exhibit Hall B - Poster Area
4:00 - 5:30 p.m.	HTS Strong Bar Competition: Phase 1 - Poster Presentation	Exhibit Hall B - Poster Area
4:00 - 5:30 p.m.	Welcome Reception with Exhibitors and Poster Session	Exhibit Hall B
6:00 - 7:00 p.m.	ASM Awards Cocktail Reception*	Westin Book Cadillac: Crystal Ballroom
7:00 - 9:30 p.m.	ASM Awards Dinner*	Westin Book Cadillac: Woodward ABCD
9:30 - 11:00 p.m.	ASM President's Reception*	Westin Book Cadillac: Venetian Ballroom
<b>WEDNESDAY, OCTOBER 22</b>		
7:30 a.m. - 5:00 p.m.	Registration Open	Exhibit Hall B - Foyer
8:00 - 9:00 a.m.	Heat Treat General Membership Meeting	142ABC
8:00 a.m. - 5:30 p.m.	IMAT Technical Programming	311AB, 312AB, 313A, 313B, 320, 321, 331ABC, 332, 334, 335
9:00 a.m. - 5:10 p.m.	ICRS - 12 Technical Programming	140A, 140B, 140C
9:00 a.m. - 5:00 p.m.	Exhibit Hall Open	Exhibit Hall B
9:15 - 10:00 a.m.	Heat Treat Keynote: Dr. Sridhar Seetharaman, Arizona State University	Exhibit Hall B - Industry Forum
9:20 - 11:00 a.m.	Refreshment Break Open in Exhibit Hall	Exhibit Hall B
10:30 - 11:30 a.m.	Fluxtrol Student Research Competition: Phase 2 - Oral Presentations	140E
11:00 - 11:45 a.m.	IMAT Keynote: Cory Phillips, Ph.D., Advanced Research Projects Agency - Energy	Exhibit Hall B - Industry Forum
11:00 a.m. - 12:00 p.m.	ICRS Keynote: Dale L. Ball, Ph.D., Lockheed Martin Aeronautics Company	141
11:30 a.m. - 1:30 p.m.	Lunch Concessions Open on the Show Floor	Exhibit Hall B
11:45 a.m. - 12:30 p.m.	HTS Strong Bar Competition - Phase 2 - Bend Test	Exhibit Hall B - Testing Booth
12:00 - 1:30 p.m.	ICRS - 12 Awards Luncheon*	142ABC
12:15 - 1:30 p.m.	ASM Materials Venture Challenge	Exhibit Hall B - Industry Forum
1:30 - 5:20 p.m.	Heat Treat Technical Programming	140E, 140F, 140G
2:30 - 3:30 p.m.	Refreshment Break Open in Exhibit Hall	Exhibit Hall B
3:00 - 3:30 p.m.	Awards Ceremony for HTS Student Competitions	Exhibit Hall B - Industry Forum
6:00 - 9:00 p.m.	Social Networking Event at Waterview Loft*	Waterview Loft
<b>THURSDAY, OCTOBER 23</b>		
7:30 - 11:00 a.m.	Registration Open	Exhibit Hall B - Foyer
8:00 a.m. - 12:00 p.m.	IMAT Technical Programming	311AB, 312AB, 313A, 313B, 320, 321, 331ABC, 332, 334, 335
9:00 a.m. - 12:00 p.m.	Exhibit Hall Open	Exhibit Hall B
9:00 a.m. - 12:00 p.m.	ICRS - 12 Technical Programming	140A, 140B, 140C
9:15 - 10:00 a.m.	Heat Treat Keynote: Justin Persinger, General Motors	Exhibit Hall B - Industry Forum
10:00 - 11:00 a.m.	Refreshment Break Open in Exhibit Hall	Exhibit Hall B
10:30 a.m. - 12:30 p.m.	Heat Treat Technical Programming	140E, 140F, 140G
12:00 p.m.	Conference Concludes	

\*Ticketed event



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HEAT TREAT | 2025

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- Precision Air Quenching Systems (PAQ™)
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# SPECIAL EVENTS

## GEOCORP'S VOLTAGE LOUNGE - ALL DAY COFFEE BREAK

Tuesday - Thursday | Exhibit Open Hours

Huntington Place: Exhibit Hall B - Booth 1001

Fuel your conference experience at the All-Day Coffee Break, proudly sponsored by GeoCorp. Located directly behind booth 1001 on the exhibit floor, the lounge offers complimentary coffee throughout the open exhibit hours. Enjoy comfortable, stylish seating designed for relaxation and conversation while you recharge, connect with colleagues, and learn more about GeoCorp's leadership in the heat treating industry.

Sponsored By: 

## WELCOME RECEPTION WITH EXHIBITORS AND POSTER SESSION

Tuesday, October 21 | 4:00 - 5:30 p.m.

Huntington Place: Exhibit Hall B

Attendees will have the opportunity to mix, mingle, and build business relationships with key contacts. This fun-filled event is an attendee favorite featuring light hors d'oeuvres and local beer/wine selections.

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## The 1913 Society Lounge: Materials Underground (ticketed event)

Wednesday, October 22 | 6:30 - 9:30 p.m.

Waterview Loft | 130 Atwater Street, Detroit, Michigan  
SOLD OUT

Step inside The 1913 Society Lounge: Materials Underground — a hidden world of vintage sophistication and metallurgical mystique. Inspired by the year ASM was founded, this exclusive speakeasy-style experience brings four signature events into one unforgettable evening of connection, conversation, and celebration. Inside this secret speakeasy, the hum of the past blends with the heat of innovation. Enjoy curated cocktails, crafted with precision, alongside multiple culinary stations offering elevated selections throughout the evening with live entertainment that keeps the energy smoldering. It's more than a party — it's an underground experience where the elite of materials and manufacturing gather to unwind, connect, and toast to progress.

Title Sponsor: 

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# STUDENTS & EMERGING PROFESSIONALS

## DOMESDAY COMPETITION

Tuesday, October 21 | 10:00 a.m. – 2:00 p.m.

Exhibit Hall B

Sponsored By  + 

Can their domes take the weight? Teams designed and built a dome to be judged in various categories, the last of which will see the dome pitted against the compression machine! Come support the 10 teams participating in ASM's Geodesic Dome Design Competition, DomesDay, at IMAT.

## FLUXTROL STUDENT RESEARCH COMPETITION

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You won't want to miss this year's Fluxtrol Student Research Competition, where young innovative scientists/professionals will go head-to-head for the grand prize of \$2,500. Let's come together to support and cheer on these emerging professionals as they provide attractive offers and opportunities in the worldwide Thermal Processing community. With the generous support of Fluxtrol, this event promises to be an exciting and memorable experience for all.

- First Place: \$2,500 cash prize
- Second Place: \$1,000 cash prize
- Third Place: \$500 cash prize

### COMPETITION SCHEDULE

#### Phase 1: Student Poster Competition

Tuesday, October 21 | 4:00 – 5:30 p.m.

Exhibit Hall B – Fluxtrol Poster Area

#### Phase 2: Oral Presentations

Wednesday, October 22 | 10:30 – 11:30 a.m.

Huntington Place: Room 140E

#### Announcement of Award Winners

Wednesday, October 22 | 3:00 - 3:30 p.m.

Exhibit Hall B – Industry Forum

## ICRS EMERGING PROFESSIONALS POSTER COMPETITION

Tuesday, October 21 | 4:00 – 5:30 p.m.

Exhibit Hall B

The Emerging Professionals Poster Competition invites graduate students and post-doctoral researchers to present their most innovative and impactful work in residual stress research. This is their platform to demonstrate their ideas, methods, and results through a visually engaging and scientifically rigorous poster presentation.

## HTS STRONG BAR COMPETITION

Sponsored By:  + 

Student teams will heat treat steel bar to achieve the highest combination of bending strength and bend deflection. Come support and encourage our student teams participating in this competition!

### COMPETITION SCHEDULE

#### Phase 1: Student Poster Competition

Tuesday, October 21 | 4:00 – 5:30 p.m.

Exhibit Hall B – Heat Treat Poster Area

#### Phase 2: Bend Test

Wednesday, October 22 | 11:45 a.m. – 12:30 p.m.

Exhibit Hall B: Booth # 1341, MTS

#### Announcement of Award Winners

Wednesday, October 22 | 3:00 - 3:30 p.m.

Exhibit Hall B – Industry Forum

Scan the QR code to view  
the Heat Treat, IMAT,  
and ICRS Exhibitor's  
PRODUCT CATEGORIES





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# COMPLETE VACUUM FURNACE SYSTEMS

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## NANO *Compact*

- 3 stacked heating cells (up to 6 with 2 heating modules)
- Gas quenching cell (up to 20 bar)

## ECO *Eco-Friendly*

- Double chamber with oil or gas quenching
- Pitless oil quench design available

## APEX *Adaptive*

- Configurable system integrated with robotics/tempering
- 360° or Up/Down, Bottom/Up Directional Gas Quenching

## FLEX *Flexible*

- Oil (hot/cold) and/or gas (up to 20 bar) quenching
- Heating cells based on required production capacity

## JUMBO *High Capacity*

- Up to 12 cells in a single row
- Multi-processing with oil and/or gas quenching

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- Optimize workflow and dunnage management



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# HEAT TREAT / IMAT / ICRS-12 EXHIBITOR LIST

2025 EXHIBITING COMPANIES	BOOTH
ACROSS USA, Inc (CFC Design)	1120
Advanced Nitriding Solutions	1518
<b>AFC Holcroft</b>	909
Airflow Sciences Corporation	1233
AJAX TOCCO	1314
Alcon Industries, INC	1147
ALD Vacuum Technologies North America, Inc.	1241
Alfing Corporation	1041
Algas-SDI	1154
Allegheny Alloy, Inc.	1017
Allied High Tech Products, Inc.	1411
Alloy Engineering Co	1502
AM Business Development Ltd.	1421
Amazemet	1466
AMERICARB INC	921
AMPP	1055
Ardleigh Minerals, Inc.	1144
ASM INTERNATIONAL	1153
ASM Materials Education Foundation	1057
AvCarb Material Solutions	1032
AVS, Inc.	958
Azbil North America	1038
Beta Diamond Products & Supplies	1053
Bodycote	1365
BOINSA	1216
bp Energy Retail Company	1067
Bronco Blast Equipment	1446
C3 Data, LLC	1433
Can-Eng Furnaces International Ltd.	1227
Cast Alloy Products / Qual-Fab, Inc.	1029
CCEWOOL Thermomax Inc	1235
CCG Group	1529
CEC Furnaces	1156
Chiz Bros: Refractory and Insulation Specialists	1333
Christy Industrial Services	1164
Cleveland Electric Laboratories, Inc.	1533
CODINA	916
Combustion OS	1238
Contour Hardening	1506
Control Concepts Inc.	1301
Cooley Wire Products	1019
CVD Equipment Corporation	1049
DANTE Solutions, Inc.	1132
Deep Cryogenics International	1036
Delamin Nitriding Salts	1059

2025 EXHIBITING COMPANIES	BOOTH
Detroit Flame Hardening Co.	1158
DMP CryoSystems	960
<b>Dry Coolers Inc</b>	1112
DuBois Chemicals	1115
<b>ECM USA</b>	1311
EFINEA	1516
Ei6	959
ELTROPULS	1429
Eurotherm USA	1404
Expanite Inc	1061
Fab-Alloy Company	1060
FIREWHEEL INDUSTRIAL CO., LTD	1167
Fives North American Combustion, Inc.	932
Fluid Dynamics	1021
Fluke Process Instruments	933
<b>Fluxtrol Inc.</b>	1211
Fort Wayne Metals	1406
Fraunhofer USA - Center for Laser Applications	1015
FUJI-DENSHI US Corp.	953
Furnacare Inc.	1221
Furnaces International	1514
Gasbarre Thermal Processing Systems	1146
GBZ Mannheim GmbH & Co. KG	1066
GEFRAN, Inc.	1118
Gencoia Ltd	1116
<b>GeoCorp, Inc.</b>	1001
GRAPHALLOY	910
Great Lakes Vacuum	1517
Heat Treat Furnaces (a TTX Company)	1505
Heat Treat Today	944
Hebei Shinning Metals Co., Ltd.	927
HEMO Cleaning Systems USA Inc.	1133
Himmelwerk Induction, Inc.	1527
Honeywell	1353
IDEA INDUCTION	952
Idemitsu Lubricants America	914
IGE FANS (Industrial Gas Engineering)	1423
Induction Tooling	1522
<b>Inductoheat / Consarc</b>	1201
INEX Incorporated	1023
Interpower Induction	1264
ION HEAT	1335
Ipsen	1401
IVA Schmetz GmbH	1432
<b>Jackson Transformer Co.</b>	905

# HEAT TREAT / IMAT / ICRS-12 EXHIBITOR LIST

2025 EXHIBITING COMPANIES	BOOTH
Journal of Thermal Spray Technology (JTST)	1520
Kowalski Heat Treating Company	1136
L&L Special Furnace	941
LECO Corporation	1026
Leybold USA, Inc.	1336
LINCOTEK	1307
Lindberg/MPH	1512
Linde	1247
LINK Induction LLC	926
McLaughlin Services LLC	917
Mend Tech Inc	937
Metallurgical High Vacuum Corp	1033
Miracle Steel	1448
Moffitt Corporation	1366
Morgan Advanced Materials	1519
<b>MTS Systems Corporation</b>	1341
MUT Advanced Heating	1139
Nel Hydrogen	1160
Netzsch Instruments North America	1560
Newton Heat Treating	1464
Nippon Kornmeyer Carbon Group	1152
Nitrex	1346
North American Cronite	1020
Noxmat Industrial Heating Technology	1145
Oak Ridge National Lab	948
Olstrad Corporation	1415
Omega Castings, Inc.	1367
Optris Infrared Sensing, LLC	1332
PhoenixTM	1427
Premier Furnace Specialists / Beavermatic	1244
Process Cooling Systems	1040
Pro-Tech Company Inc.	1521
Protection Controls, Inc.	1037
Proto X-ray Diffraction	908
Pulstec Industrial Co., Ltd	1552
Purdue University	1064
PVA TePla America LLC	1138
Pyromaitre Inc.	1500
<b>Quaker Houghton</b>	1215
Refractory Service, Inc.	923
Rockford Combustion	1513
Rolled Alloys	1405
RÜBIG Industrial Furnaces	904
SAFECEM Europe GmbH	1232

2025 EXHIBITING COMPANIES	BOOTH
Sajjan LLC	900
SBS Corporation	918
Schunk Carbon Technology	1526
SCHWING Technologies	1039
SciAps Inc	1140
SECO/WARWICK Corporation	1317
Selas Heat Technology	1117
Signature Vacuum Furnaces	1218
Simplex Metals LTD	1045
SMS-Elotherm	1166
Solar Manufacturing	1127
South Tek Systems	1018
<b>Springer Nature</b>	920
Steelhead Technologies	1566
Steeltech LLC	1121
Sun-Tec Corporation	1501
Super Systems Inc.	1107
<b>Surface Combustion</b>	1101
Surface Flow Technology, Inc/LSN Diffusion	931
TEC Materials Testing	1058
Televac® - The Fredericks Company	1222
Tenova Inc.	1122
Thermcraft, Inc.	1504
Thermo-Calc Software Inc.	1305
TK Engineering / Yuasa International	1165
Trimble Combustion Systems, Inc.	1558
Tucker Induction Systems	901
Ultraflex Power Technologies Corp.	939
Upton Industries, A Kolene Company	1364
Vac Aero International Inc.	1220
VEQTER Ltd	1564
<b>Verder Scientific, Inc.</b>	1013
VESCO - A Company of the Busch Group	1337
Viking Engineering	1214
Weldaloy Metallurgical Laboratory	1266
Williams Industrial Service	1014
Wirco Inc.	1347
Wisconsin Oven Corporation	1510
WS Thermal Process Technology Inc.	915
Wuxi Junteng Fanghu Alloy Casting Co.,Ltd.	1265
Xinghua Tongbu Casting Co., Ltd.	1511
X-Sight s.r.o.	1554
ZIRCAR Ceramics, Inc.	1065
Zircar Refractory Composites, Inc.	1237

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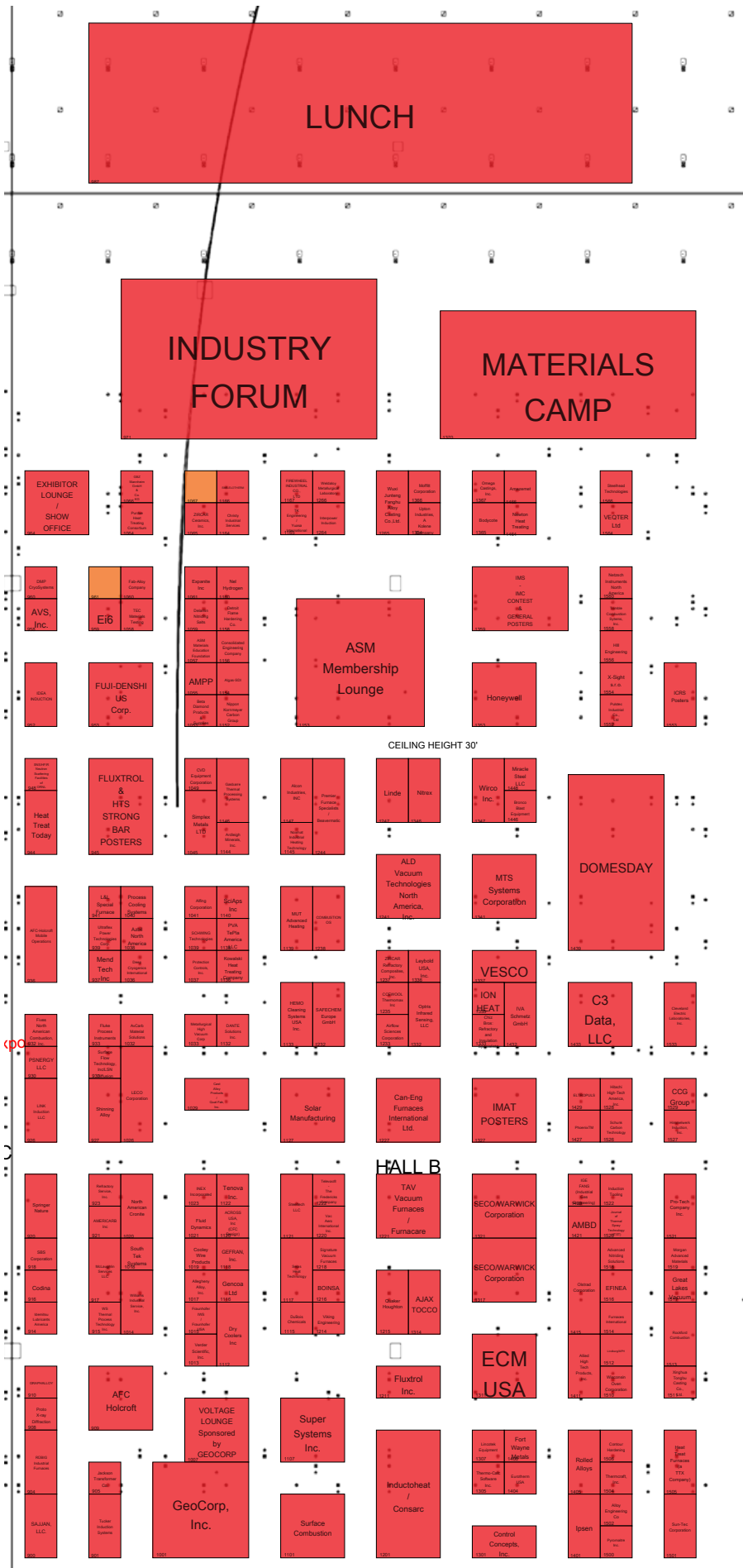


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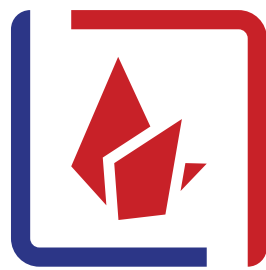
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Est. in 1941, Detroit Flame Hardening Co. is a trusted leader in precision heat treating. Specializing in localized flame hardening, we deliver targeted hardening of critical metal surfaces with many key solutions. We serve the USA with a full range of services: flame hardening, straightening, stress relief, tempering, annealing, normalizing, and more. Trusted for quality, innovation, and reliability, we're committed to delivering results that last. Current locations: Detroit, Cleveland, and Cincinnati.

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

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### **HEAT TREAT CORPORATE SPONSOR**

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

# EXHIBITOR COMPANY DESCRIPTIONS

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[www.ecm-usa.com](http://www.ecm-usa.com)

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

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[www.element6.com](http://www.element6.com)

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

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### **Booth # 1060**

Since 1954, Fab-Alloy Co. has built a rich legacy as a third-generation family-owned business in Jackson, Michigan. Specializing in custom alloy and stainless steel fabrication, we are renowned for our expertise in crafting high-quality components for all heat-resistant applications. Our commitment to precision and quality has made us a trusted partner for intricate fabrication needs. We have extensive experience fabricating muffles, baskets, tubes, boats, retorts and more.

[www.fab-alloy.com](http://www.fab-alloy.com)

# EXHIBITOR COMPANY DESCRIPTIONS

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### **Booth # 1167**

One of the largest and most professional Chinese manufacturers of high-temperature resistance textiles and fluid seals. The main products includes textiles of fiberglass, ceramic fiber, basalt fiber and silica fiber, various sealing packings and gaskets.

[www.firewheel.com.cn](http://www.firewheel.com.cn)

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[www.fivesgroup.com/energy-combustion](http://www.fivesgroup.com/energy-combustion)

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[www.fluid-dynamics.com](http://www.fluid-dynamics.com)

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### **HEAT TREAT CORPORATE SPONSOR**

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

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



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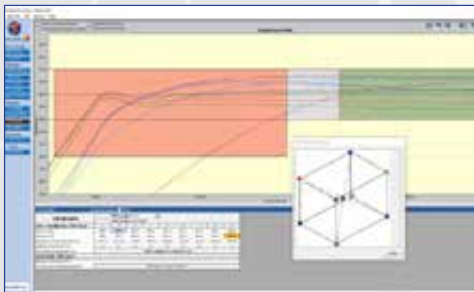
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- Apply accurate data logger and thermocouple correction factors with ease
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[www.iws.fraunhofer.de/en.html](http://www.iws.fraunhofer.de/en.html)

[www.cmw.fraunhofer.org/en/expertise/LaserTechnologies.html](http://www.cmw.fraunhofer.org/en/expertise/LaserTechnologies.html)

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[www.fujidenshi.co.jp/en/](http://www.fujidenshi.co.jp/en/)

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**Booth # 1221**

[www.furna.care](http://www.furna.care)

## **FURNACES INTERNATIONAL**

**Booth # 1514**

Furnaces International is an English language journal dedicated to the production of furnaces. It contains a digest of global news, events, and statistics as well as more detailed technical articles, company and country profiles, conference reports and regular regional economic briefings.

[www.furnaces-international.com](http://www.furnaces-international.com)

## **GASBARRE THERMAL PROCESSING SYSTEMS**

**Booth # 1146**

Gasbarre Thermal Processing Systems designs, manufactures, and services atmosphere and vacuum furnace systems for a wide range of industries and processes. From engineering and manufacturing to commissioning and aftermarket support, our team delivers value and design flexibility backed by deep process knowledge. Gasbarre's technical expertise and customer focus ensure reliable solutions that support your success today and into the future.

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

## **GBZ MANNHEIM GMBH & CO. KG**

**Booth # 1066**

GBZ produces, repairs and engineers inductors for all hardening tasks, such as crankshafts and cam shafts, axis and gear components, etc. GBZ develops and designs inductors according to customer samples or specifications for most diverse induction heating processes. GBZ is strongly 'development based' our engineering team has 3 CAD workstations to satisfy all demands of our customers. Your Cost-Effective Solution that does not sacrifice Quality.

[www.gb-z.de](http://www.gb-z.de)

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**Booth # 1118**

GEFRAN is an Italian multinational providing advanced solutions for industrial automation and process control. With deep expertise in metal, glass, and thermal processes, Gefran ensures quality, flexibility, and innovation. Its portfolio of power regulators, controllers, sensors, and automation platforms boosts efficiency and energy savings. The company has 650+ employees, 8 production sites, 13 subsidiaries, and 80+ distributors worldwide.

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



## IS METAL CLEANING MAKING OR BREAKING YOUR HEAT TREAT PROCESS?

Surface contaminations during heat treatment can greatly impact the quality of the end products, especially when it comes to demanding processes such as nitriding, brazing, vacuum treating and PVD-coating. This is why quality cleaning – both prior and after hardening – has such a key role to play.

With both non-polar and polar properties, our virgin-grade, proven modified alcohols **DOWCLENETM\* 1601**, **DOWCLENETM\* 1621** and **DUALENETM 1601 S** can effectively remove oils and greases as well as certain polar contaminations. With low toxicity, they are chemically highly stable and can meet the most demanding requirements of high-precision cleaning.

The making or breaking of heat treat process may lie in your metal cleaning. Are you making a conscious choice today?

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



TM Trademark of SAFECHEM

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# EXHIBITOR COMPANY DESCRIPTIONS

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### **Booth # 1116**

Optix is a sensor from Gencoa which protects vacuum based processes by sensing the gases present for faster fault-free production. For vacuum metallurgy and heat treatment, the easy-to-use Optix gas sensing device is a key component for ensuring fault-free production and protecting valuable components during the vacuum phase. Quantifying leaks, outgassing, contamination and gas variations, Optix delivers high sensitivity quantification of any gas in the most extreme environments.

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

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### **HEAT TREAT CORPORATE SPONSOR**

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Manufacturing thermocouples and thermocouple wire means that we have:

- More control of product availability
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[www.geocorpinc.com](http://www.geocorpinc.com)

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

## **GREAT LAKES VACUUM**

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Great Lakes Vacuum specializes in the sale and service of industrial vacuum pumps and mechanical vacuum boosters (blowers), serving customers worldwide. With over 20 years of experience, we have established ourselves as a leading provider of repair, rebuild, remanufacturing, and testing services in the industry. We are also one of the largest suppliers of vacuum pump and blower PARTS, including KITS for minor and major rebuilds, and OILS/LUBES/FLUIDS.

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

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### **Booth # 1505**

Heat Treat Furnaces designs, fabricates, and installs custom industrial systems built for performance and reliability. Each furnace is backed by expert engineering, full-service support, and versatile capabilities. From evaluation to installation and beyond, every detail is managed in-house. Technical training and ongoing service ensure lasting performance.

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

## **HEAT TREAT TODAY**

### **Booth # 944**

Heat Treat Today believes that people are happier and make better decisions when they are well informed. That's why it is our passion to find and deliver the best information for manufacturers with in-house heat treat departments through our multiple platforms.

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

# EXHIBITOR COMPANY DESCRIPTIONS

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**Booth # 927**

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

## **HEMO CLEANING SYSTEMS USA INC.**

**Booth # 1133**

As one of the technology leaders in surface technology, we at HEMO are specialists in the business of machine building for component cleaning according to precisely defined residual dirt specifications.

[www.hemo-usa.com](http://www.hemo-usa.com)

## **HILL ENGINEERING**

**Booth # 1556**

[www.hill-engineering.com](http://www.hill-engineering.com)

## **HIMMELWERK INDUCTION, INC.**

**Booth # 1527**

[www.himmelwerk-usa.com](http://www.himmelwerk-usa.com)

## **HONEYWELL**

**Booth # 1353**

Honeywell Thermal Solutions delivers comprehensive combustion and thermal process solutions to a wide range of industrial applications. From burners and controls to complete thermal systems, we help customers improve efficiency, safety, and emissions performance in heat treat, metals, glass, ceramics and beyond.

[www.process.honeywell.com/us/en/hts](http://www.process.honeywell.com/us/en/hts)

## **IDEA INDUCTION**

**Booth # 952**

IDEA INDUCTION LLC provides turnkey induction heating and induction hardening systems designed for precision hardening, brazing, shrink fitting or other heat treatment processes. With decades of experience in induction technology, our team delivers reliable, high-performance systems for industrial applications across North America. We are The Induction Heating Experts.

[www.idea-induction.com](http://www.idea-induction.com)

## **IDEMITSU LUBRICANTS AMERICA**

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IGE delivers proven fan designs leveraging cutting-edge technologies and the highest quality, heat-resistant components in weeks, not months. We offer innovative, USA-made equipment backed by more than a century of engineering refinements and unmatched application engineering support to ensure you get the optimal equipment for your needs.

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

## **INDUCTION TOOLING**

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Induction Tooling, Inc., specializes in Inductor Design, Manufacture, Prototype Development, Metallurgical Services, Consulting, and Repair Services. We are ISO 17025 Certified as a commercial testing facility. Our Manufacturing facility is ISO 9001-2015 Certified. We are proudly celebrating 47 years of service to the heat treat industry.

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

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

## **INEX INCORPORATED**

### **Booth # 1023**

[www.inexinc.net](http://www.inexinc.net)

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### **Booth # 1264**

Interpower Induction is a single-source manufacturer of turn-key induction heating systems. We are the leading supplier and developer of Zone Control Technology® and induction heating equipment. We provide our customers with unique testing capabilities prior to installation. Our systems are used in a variety of industries. We support and service products which include power supplies, coils, material handling, water cooling, fluid and gas heaters, bowl feeders, and our Sign-Link™ quality monitors.

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

## **ION HEAT**

### **Booth # 1335**

Plasma/Ion Nitriding Furnace manufacturers. ION HEAT equipment helps you achieve the best results from all nitriding processes.

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

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Ipsen designs and manufactures industrial vacuum and atmosphere heat-treating systems, supervisory controls systems and predictive maintenance software platforms. The industries we serve include aerospace, automotive, commercial heat treating, energy and medical. With a network of global locations and partnerships in America, Europe and Asia, and representation in 34 countries, we continue to provide expert-driven solutions that strengthen heat treatment throughout the world.

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

## **IVA SCHMETZ GMBH**

### **Booth # 1432**

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

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

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

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### **Booth # 1136**

Kowalski Heat Treating was founded in 1975 by Bob Kowalski in a small lakefront facility to service the needs of the local tool and die industry. Fifty years later, we have grown to include six world-class processing divisions, on a nine-building campus in Ohio City serving North American. KHT specializes in PIA (Pain in the @\$) jobs! Divisions include rack Salt to Salt Austempering, 10 Bar Vacuum, ION-Nitriding, Heat Set Flattening to 72' in diameter, Deep Cryogenics, Metallurgical Lab Services.

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

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### **Booth # 941**

L&L Special Furnace designs and manufactures a wide range of industrial heat-treating furnaces, ovens, and kilns. With over 75 years of experience, L&L provides reliable, high-performance equipment for aerospace, automotive, energy, and research applications. Our furnaces are built for precision, durability, and uniformity, with custom engineering available to meet exact customer requirements. All systems are manufactured in the USA and backed by comprehensive service and support.

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

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### **Booth # 1026**

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

## **LEYBOLD USA, INC.**

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[www.leybold.com/us/en](http://www.leybold.com/us/en)

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### **Booth # 1307**

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **LINDBERG/MPH**

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Lindberg/MPH is a leading manufacturer of standard and custom industrial heat treat furnaces. Their line of heat treat furnaces includes pit, box, IQ, and belt type designs for the ferrous and non-ferrous markets. In addition to heat treat furnaces, Lindberg/MPH designs and manufactures a full line of melting and holding furnaces for non-ferrous alloys. The non-ferrous equipment designs offered include wet hearth melting, stack melters, dry hearth, crucible/pot melting, and aluminum holding.

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

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**Booth # 1247**

Linde is a leading global industrial gases and engineering company. We live our mission of making our world more productive every day by providing high-quality gases, technologies and services which are making our customers more successful and helping to sustain, decarbonize and protect our planet. Linde will be featuring atmosphere technologies, providing attendees a better understanding of protective furnace atmospheres, gas flow optimization, proper gas supply and gas flow control.

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

## **LINK INDUCTION LLC**

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

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McLaughlin Furnace Group is globally recognized as an innovative pioneer in the heat treat industry. With over 100 years of combined heat treat experience. McLaughlin specializes in custom design, engineering, fabrication, installation and field service for industrial heat treat customers all over the world.

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

## **MEND TECH INC**

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

## **METALLURGICAL HIGH VACUUM CORP**

**Booth # 1033**

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

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Miracle Steel: Is the manufacturer/distributor of high-quality Kotar brand of low-carbon steel shot in the Americas, developed from extensive R&D for superior hardness. Kotar maintains strength, resists breaking, and offers a longer lifetime, validated in rigorous testing and customer applications, resulting in shorter processing times.

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

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**Booth # 1366**

Leveraging more than 60 years of experience, Moffitt designs the right ventilation solution for your specific facility to meet your goals within your budget. Turn to Moffitt to solve problems like extreme temperatures, excessive production fumes, and high humidity or moisture. We offer free building assessments and ventilation designs, advanced CFD modeling and expert installation. Our mission is to help contractors, engineers, and building owners find the best ventilation system for their facilities.

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



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Endothermic/Exothermic Mixing  
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[www.morganadvancedmaterials.com](http://www.morganadvancedmaterials.com)

## **MTS SYSTEMS CORPORATION**

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**Booth # 1341**

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

## **MUT ADVANCED HEATING**

**Booth # 1139**

Increasing requirements on the material sector lead to ever more complex manufacturing processes. The advancing development in the field of materials science has fundamentally changed the necessary thermal processes. More complex plant engineering and increased efficiency requirements inevitably lead to a stronger individualization and automation of thermal systems. MUT as your partner for individual heat treatment stands for modern design and customized high-temperature furnaces.

[www.mut-jena.de/en/](http://www.mut-jena.de/en/)

## **NEL HYDROGEN**

**Booth # 1160**

Nel Hydrogen a global, dedicated hydrogen company, delivering optimal solutions to produce hydrogen on-demand. Our patented PEM electrolysis systems coupled with uncompromising attention to excellence and quality enable us to provide solutions that meet global hydrogen requirements for thermal spray, powder metallurgy, MIM, and heat treating.

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

## **NETZSCH INSTRUMENTS NORTH AMERICA**

**Booth # 1560**

[www.analyzing-testing.netzsch.com/en-US](http://www.analyzing-testing.netzsch.com/en-US)

## **NEWTON HEAT TREATING**

**Booth # 1464**

Newton Heat Treating, founded in 1968, has delivered expert aluminum heat treating services to the aerospace, automotive, and commercial industries for over 57 years. We work to your specifications on all aluminum alloys and forms. Newton leads the way in Cold Stabilization/Uphill Quenching, offering proven solutions for controlling movement during machining. Our approach to managing residual stress is second to none in the industry.

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

## **NIPPON KORNMEYER CARBON GROUP**

**Booth # 1152**

Since 1968, the Kornmeyer family has been supplying and innovating the carbon-based materials market. Today, Nippon Kornmeyer Carbon Group is a company jointly operated by the shareholders of Kornmeyer Carbon-Group (Germany) and Nippon Carbon Co. Ltd. (Japan), a Tokyo stock exchange listed carbon manufacturer.

[www.nk-carbon.com](http://www.nk-carbon.com)

## **NITREX**

**Booth # 1346**

Nitrex is a global leader in heat-treating solutions, offering advanced turnkey systems, precision-controlled nitriding and vacuum technologies, and expert heat-treating services. With decades of innovation, a commitment to quality, and Nadcap-certified processes, Nitrex serves aerospace, automotive, energy, and other industries. Our solutions enhance performance, durability, and efficiency, ensuring superior metallurgical results for critical applications worldwide.

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **NORTH AMERICAN CRONITE**

### **Booth # 1020**

Cronite is a world leader in the manufacture of cast alloy trays, fixtures, and furnace parts for the heat treatment, steel, automotive, and aerospace industry. Cronite is present throughout the world, with 9 production, design and R&D facilities in the US, Mexico, France, England, Germany, Czech Republic, China and India.

[www.cronite-nac.com](http://www.cronite-nac.com)

## **NOXMAT INDUSTRIAL HEATING TECHNOLOGY**

### **Booth # 1145**

NOXMAT develops, manufactures, and produces industrial gas burners as well as electric heating systems for thermal processing technology. Our range of products includes recuperator burners, control devices for burner technology, radiant tubes for heating industrial furnaces, electric heating elements, as well as customer-specific control cabinet construction. Our products are sold in over 35 countries around the globe and are used in heat treatment plants and facilities worldwide.

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

## **OAK RIDGE NATIONAL LAB**

### **Booth # 948**

SNS/HFIR Neutron Scattering Facilities of ORNL

[sns.gov/hfir/neutron-scattering](http://sns.gov/hfir/neutron-scattering)

## **OLSTRAD CORPORATION**

### **Booth # 1415**

Olstrad is more than a design house, and more than a field crew; we're your project partner. Customers know us for our range and degree of expertise, and enjoy our commitment to quality, flexibility, and customer service. We're proud to represent Contrive, Elektrogas, ESA, and Santin in the USA.

[www.combustion911.com](http://www.combustion911.com)

## **OMEGA CASTINGS, INC.**

### **Booth # 1367**

Omega Castings is the world's leading producers of cast link alloy conveyor belt systems and replacement parts. Located in Battle Creek, Michigan, our foundry specializes in casting heat-resistant stainless-steel alloys. Our core focus are industries requiring robust solutions for high-temperature environments. Our mission is to deliver world-class alloy castings and assemblies with superior metallurgical and dimensional integrity, ensuring timely delivery and competitive pricing.

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

## **OPTRIS INFRARED SENSING, LLC**

### **Booth # 1332**

Optris is one of the leading companies in the field of non-contact temperature measurement familiar to many high temperature process engineers in Europe but a new brand to the U.S. and Canadian markets. Optris will develop and support the North American market from its new facility in Portsmouth, NH. At the show, we will display our full line of high temperature infrared thermometers and infrared cameras together with the accessories designed to deploy these in harsh industrial environments.

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

## **PHOENIXTM**

### **Booth # 1427**

Phoenix<sup>TM</sup> manufacture 'thru-process' temperature monitoring systems for furnace profiling and TUS. Our system eliminates the need for trailing thermocouples. Simple powerful software permits efficient process optimization and is able to generate AMS2750G and CQI-9 compliant reports. A two-way RF option offers real time monitoring and logger control. Standard or custom built Phoenix<sup>TM</sup> systems can be used in a wide range of heat treat applications even including those with oil or salt quenches.

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **PREMIER FURNACE SPECIALISTS / BEAVERMATIC**

### **Booth # 1244**

Premier Furnace / BeaverMatic, with the acquisition of BeaverMatic's intellectual property and assets (in 2015), we provide over 82 years of combined experience, with proven performance furnace systems: Internal Quench Furnaces:(Batch and Continuous), Roller Hearth, Pusher, Car Bottom, Tip-Up, Forging, Box Furnace, Walking Beam, Drop Bottom, Annealing, Aluminum Solution, Brazing, Atmosphere Generators, Technical Support, and Field Service.

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

## **PROCESS COOLING SYSTEMS**

### **Booth # 1040**

Process Cooling Systems is a nationwide turnkey supplier specializing in central cooling systems for all types for heat transfer processes. Offering application specific design and engineering services along with our in house manufacturing and installation departments, we are a single source solution for our customers cooling system requirements.

[www.processcooling.net](http://www.processcooling.net)

## **PRO-TECH COMPANY INC.**

### **Booth # 1521**

Pro-Tech Sales LLC was founded in 1985, incorporated in 1987 on the vision of becoming a "world-class" supplier of quality products to thermal processing industries. Pro-Tech Sales, LLC has grown to be the leader in the heat treating, steel producing, lime producing, cement producing and power generation industries.

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

## **PROTECTION CONTROLS, INC.**

### **Booth # 1037**

Protection Controls Inc. has been manufacturing electrical Safety equipment for over 70 years. We have a complete line of single and multiple burner PROTECTOFIER combustion safeguards for supervision of fuel-fired burners in industrial process-heating equipment. This type of electronic safety control is required to comply with state, local and national codes.

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

## **PROTO X-RAY DIFFRACTION**

### **Booth # 908**

Proto is a leading local manufacturer of x-ray characterization equipment, including residual stress and retained austenite measurement systems.

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

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# VERDER



## The Heat.

Achieve precise, repeatable, and compliant thermal processes with the world's leading manufacturer of high-temperature furnaces and ovens. Carbolite provides industry-leading solutions from 30°C to 3000°C for applications in air, modified atmospheres, or vacuum.

Our equipment is trusted by research laboratories, pilot plants, and manufacturing sites to deliver superior energy efficiency, reliability, and performance for the most demanding applications.

 ENABLING PROGRESS

**CARBOLITE**  
a VERDER company

# The Proof.

Heat treatment is only half the story. Verifying the result is critical. QATM provides a full range of high-quality machines for materialography and hardness testing, allowing you to validate your process with unparalleled accuracy. Reveal the true microstructure and material properties of your heat-treated components with our innovative and reliable solutions.



## Qness 150 CS

QATM's Qness 150 CS Rockwell hardness testers guarantee precision by placing an ultra-precise HEIDENHAIN depth-gauging system directly on the indenter axis. This eliminates system deformation errors, enabling direct depth measurement and simple calibration compliant with the latest Rockwell standards.



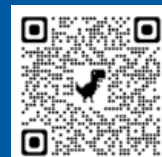
## Qness 60 A+ EVO

The Qness 60 A+ EVO combines advanced hardness testing and microscopy for maximum convenience and reliable results. With our QAI software, it uses artificial intelligence to automatically detect indentations, ensuring unparalleled accuracy and eliminating manual intervention.

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# EXHIBITOR COMPANY DESCRIPTIONS

## **PULSTEC INDUSTRIAL CO., LTD**

Booth # 1552

[www.pulstec.co.jp/en/](http://www.pulstec.co.jp/en/)

## **PURDUE UNIVERSITY**

Booth # 1064

[engineering.purdue.edu/MSE](http://engineering.purdue.edu/MSE)

## **PVA TEPLA AMERICA LLC**

Booth # 1138

PVA TePla is a materials development company. We manufacture the tools and technology to help companies fabricate and inspect products. We have solutions across a broad range of industries such as Semiconductors, Aerospace, Automotive and Utilities. Industrial Vacuum Solutions product offers are for PulsPlasma Nitriding, Brazing, Diffusion Bonding, Graphite Purification, CVD & CVI, Induction Melting, SinterHIP and Crystal Growing. Our expertise is in high-vacuum high-temperature applications.

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

## **PYROMAITRE INC.**

Booth # 1500

[pyromaitreovens.com/en/](http://pyromaitreovens.com/en/)

## **QUAKER HOUGHTON**

HEAT TREAT CORPORATE SPONSOR

Booth # 1215

Quaker Houghton is the world leader in quenchants and heat treatment fluids, including cold quenching oils, heat treatment salts, martempering oils, pack carburizers, vacuum quench oils, and aqueous polymer quenchants.

[www.home.quakerhoughton.com](http://www.home.quakerhoughton.com)

## **REFRACTORY SERVICE, INC.**

Booth # 923

Delivering the highest quality refractory supplies and services for over 60 years. Headquartered in the heart of the Midwest, RSI provides refractory castable, brick, mortar, ceramic fiber, and installation services to meet industry needs across the United States.

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

## **ROCKFORD COMBUSTION**

Booth # 1513

About Rockford Combustion Rockford Combustion provides combustion safety and fuel-train solutions for industrial fuel-fired equipment. We design and build valve trains, burners, and controls, and offer audits, field service, and training to improve safety, efficiency, and compliance. We also distribute products from top manufacturers, including Access, Allen Bradley, Algas-SDI, ASCO, Fireye Honeywell, Fox Thermal, MAC Valves, Selas, Siemens, VCI, and more.

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

## **ROLLED ALLOYS**

Booth # 1405

Rolled Alloys is a trusted supplier of heat-resistant alloys for the heat treating industry. We offer a broad range of high-performance stainless steels and nickel alloys engineered to withstand extreme temperatures and corrosive environments. Backed by our in-house processing capabilities and expert metallurgical support, we help extend equipment life, boost performance, and reduce downtime. Quote, buy, and track orders anytime at [www.rolledalloys.com](http://www.rolledalloys.com).

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **RÜBIG INDUSTRIAL FURNACES**

### **Booth # 904**

RUBIG Industrial Furnaces has been producing customized heat treatment plants since 1992. The know-how reflected in the construction of the furnaces has been gained in the in-house job shop. With the new brand generations MICROPULS® and GASCON, RUBIG has reached new heights in nitriding and coating. RUBIG is supplying big automotive companies, the aviation industry as well as small commercial job shops in more than 40 countries.

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

## **SAFECEM EUROPE GMBH**

### **Booth # 1232**

SAFECEM offers halogenated solvents and modified alcohols to help heat treaters meet precision cleaning requirements for critical applications such as gas nitriding, ferritic nitrocarburizing and low pressure carburizing. With no requirement for water, our solvent solutions enable a resource-efficient, cost-effective and sustainable cleaning process. Our service portfolio also covers test kits, stabilizers, lab analysis as well as employee risk awareness training to help optimize your cleaning process.

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

## **SAJJAN LLC**

### **Booth # 900**

SAJJAN is a trusted leader in Heat Resistant Castings, supplying base trays, grids, fixtures, and cast parts for furnaces. Since 1935, we have proudly served 1690+ customers in 27 countries across heat treatment, automotive, and aerospace industries. Our in-house team designs durable, efficient fixtures to minimize distortion, enhance loading, and reduce costs. Visit booth 900 to see how we optimize part-to-fixture weight ratio for maximum efficiency and reliability.

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

## **SBS CORPORATION**

### **Booth # 918**

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

## **SCHUNK CARBON TECHNOLOGY**

### **Booth # 1526**

From concept to final solution, our team delivers precision-engineered, high-performance fixturing tailored to your thermal processing needs. Locally based in Wisconsin, we design, machine, and build CFC fixturing for vacuum heat treating.

[www.schunk-group.com/carbon-technology/en](http://www.schunk-group.com/carbon-technology/en)

## **SCHWING TECHNOLOGIES**

### **Booth # 1039**

SCHWING engineers and manufactures fluidized bed heat treatment systems. With this especially safe and time-efficient technology, metal or non-ferrous components are immersed into a retort filled with an inert, gas-fluidized oxide powder. The benefits of this fluidized bed process are its rapid heat transfer capabilities and excellent temperature uniformity. Partial heat treatment and hot-shaping are possible as well. Fluidized bed systems are also available as a quenching bath.

[www.schwing.tech](http://www.schwing.tech)

## **SCIAPS INC**

### **Booth # 1140**

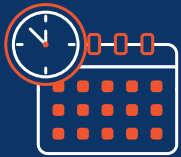
SciAps, Inc., is a Boston-based instrumentation company specializing in portable analytical instruments to measure any element, any place on the planet. Our industry-leading X-ray fluorescence (XRF) and laser-based (LIBS) analyzers are at work across every major industry, including oil/gas, metals and mining, aerospace, battery and strategic metals (lithium, rare-earth elements), scrap metal recycling, chemical and petrochemical, military, forensics and law enforcement.

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



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OPERATIONS  
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**BOOTH 1238**



# EXHIBITOR COMPANY DESCRIPTIONS

## **SECO/WARWICK CORPORATION**

### **HEAT TREAT SPONSOR**

#### **Booth # 1317**

SECO/WARWICK Corporation is the 1st choice provider of heat treatment solutions for the North American marketplace. We engineer, deliver and support a wide range of advanced vacuum technologies as well as atmosphere furnaces including rotary retort, mesh belt and roller hearth equipment. Since 1984 our furnaces have been employed to heat treat parts ranging from agricultural equipment to aerospace components, and everything in between.

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

## **SELAS HEAT TECHNOLOGY**

### **Booth # 1117**

Selas is a leading industrial burner manufacturer serving the industrial thermal processing industry with a comprehensive range of innovative and reliable gas burners, combustion systems and thermal components to support many different types and brands of ovens, furnaces and thermal processing applications.

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

## **SIGNATURE VACUUM FURNACES**

### **Booth # 1218**

Signature manufacturers industrial vacuum furnaces. Offering standard products for various processes including brazing, sintering and heat treating and custom engineered products ranging from steam heated vacuum ovens to high temperature ceramic sintering furnaces. Signature's mission is to provide superior low cost of ownership furnaces engineered for exceptional performance, built by skilled craftsmen with quality materials.

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

## **SIMPLEX METALS LTD**

### **Booth # 1045**

Simplex Metals Ltd. is an ISO 9001:2015 company. One of the leading manufacturer & supplier of Stainless Steel Casting, Heat Resistant Castings, Heat Treat Furnace Alloy Parts for various kinds of Furnaces in Sand Casting, Lost Wax / Investment Casting, No Bake Casting as well as the Fabricated Parts. Heat Treat Fixtures, Cast & Fabricated / Rod Frame Baskets, Base Trays, Furnace Integral Parts, etc.

[www.simplexmetalsltd.ca](http://www.simplexmetalsltd.ca)

## **SMS-ELOTHERM**

### **Booth # 1166**

SMS-Elotherm- has decades of experience in the inductive heating and heat treatment of metals for your reliable partner! We offer equipment, modernization, and retrofits for heating of metals for rolling of long and flat products, for coil heating and forging heating, for welding and annealing of tubes and long products, and for quenching and tempering of tube and long products. In addition, we offer design, new build, and repair services for all of your induction coil needs.

[www.sms-elotherm.com](http://www.sms-elotherm.com)

## **SOLAR MANUFACTURING**

### **Booth # 1127**

Solar Manufacturing is committed to delivering the most technically advanced vacuum furnaces tailored for a broad spectrum of heat treating applications. Our systems feature energy-efficient hot zone designs, high-pressure gas quenching, and feature-rich SolarVac® automation and controls empowering heat treaters with performance, precision, and reliability.

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

## **SOUTH TEK SYSTEMS**

### **Booth # 1018**

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **SPRINGER NATURE**

### **IMAT SPONSOR**

#### **Booth # 920**

Springer Nature is one of the leading publishers of research in the world. Through our leading brands, trusted for more than 180 years, we provide technology-enabled products, platforms and services that help researchers to uncover new ideas and share their discoveries, health professionals to stay at the forefront of medical science, and educators to advance learning.

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

## **STEELHEAD TECHNOLOGIES**

### **Booth # 1566**

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

## **STEELTECH LLC**

### **Booth # 1121**

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

## **SUN-TEC CORPORATION**

### **Booth # 1501**

Sun-Tec has provided complete Hardness Testing solutions for decades, offering a full range of testing equipment, standards, and indenters. We also supply Metallographic Preparation equipment with accessories for sectioning, mounting, and polishing. Our unmatched service team offers expert support before and long after purchase, helping you find the right solutions for your application.

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

## **SUPER SYSTEMS INC.**

### **Booth # 1107**

Super Systems Inc. (SSi) designs and manufactures innovative sensors, probes, analyzers, and flow control products for thermal processing. Known for exceptional customer service and technical support, SSi delivers cutting-edge solutions that improve process control, efficiency, and compliance. Partner with SSi for reliable, forward-thinking technologies backed by responsive, knowledgeable support.

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

## **SURFACE COMBUSTION**

### **HEAT TREAT CORPORATE SPONSOR**

#### **Booth # 1101**

Established in 1915, Surface® provides customers rugged, reliable thermal processing equipment. Our strength lies in the breadth of our product portfolio, our unparalleled process knowledge, and our commitment to customer service. From our standard atmosphere and vacuum furnace designs, to custom engineered thermal process solutions, to quick, responsive aftermarket support, Surface stands ready to serve you.

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

## **SURFACE FLOW TECHNOLOGY, LNC/ LSN DIFFUSION**

### **Booth # 931**

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **TEC MATERIALS TESTING**

### **Booth # 1058**

TEC Materials Testing is a global leader in portable X-ray diffraction (XRD) systems and testing services. For over 40 years, we've helped industries like aerospace and automotive ensure quality and reliability. Our TEC 4000 and MAX units deliver fast, accurate results in lab or field environments. From residual stress to retained austenite analysis, we provide trusted solutions, expert support, and rapid turnaround so you can build with confidence.

[www.tec-materialstesting.com/](http://www.tec-materialstesting.com/)

## **TELEVAC® - THE FREDERICKS COMPANY**

### **Booth # 1222**

Televac®, a brand of The Fredericks Company, is a leading manufacturer of precision measurement and control instruments for various industries. Since 1935, we offer a wide range of products including vacuum gauges, sensors, and controllers. Their commitment to quality and innovation has made them a trusted partner for businesses seeking reliable and accurate measurement solutions.

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

## **TENOVA INC.**

### **Booth # 1122**

Tenova, through its Tenova LOI Thermprocess division, designs and supplies a wide range of heat-treating furnaces for plate, pipe, wire, strip steel, forgings, and specialty applications. Offerings include batch and continuous type furnaces, including the "High Performance Hydrogen" HPH bell-type annealing plants. We also provide a complete range of technical and spare parts services to keep your facility running efficiently.

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

## **THERMCRAFT, INC.**

### **Booth # 1504**

We are an international leading manufacturer of high quality thermal processing equipment. We manufacture low and high temperature laboratory furnaces, production furnaces, vacuum formed ceramic fiber heaters, cast heaters, heater coils, air heaters, ovens, kilns and diffusion heaters, all custom designed to meet your thermal requirements.

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

## **THERMO-CALC SOFTWARE INC.**

### **Booth # 1305**

Thermo-Calc empowers metallurgists and process engineers to: Calculate thermodynamic and phase-based properties as a function of chemistry, temperature, and time. Fill in data gaps while reducing costly, time-consuming experiments. Predict how actual vs nominal chemistries affect processing windows. Accelerate materials development while reducing risk. Troubleshoot issues during materials processing. Databases for Steels, Al-, Ti-, Mg-, Cu-, HEAs, Ni-superalloys and more.

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

## **TK ENGINEERING / YUASA INTERNATIONAL**

### **Booth # 1165**

Yuasa International and TK Engineering provide induction coil 3D printing services. Our service includes, design, simulate pattern, 3D print and delivery.

[www.yuasa-intl.com](http://www.yuasa-intl.com)

## **TRIMBLE COMBUSTION SYSTEMS, INC.**

### **Booth # 1558**

Trimble Combustion Systems is an engineering and consulting firm that specializes in combustion technology.

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **TUCKER INDUCTION SYSTEMS**

### **Booth # 901**

Tucker Induction Systems has been providing World Class Excellence in Quality and Delivery to the Induction Industry since 1976. Our goal has been for our customers to recognize Tucker Induction as Number One in the industry for providing a Quality Service from Design and Build of New Induction Tooling to rebuilding Existing Tooling to a Like New Condition.

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

## **ULTRAFLEX POWER TECHNOLOGIES CORP.**

### **Booth # 939**

UltraFlex Power Technologies delivers advanced, digitally controlled induction heating systems engineered for precision heat treatment. Our modular, multi-output SmartPower™ platforms offer unmatched flexibility, energy efficiency, and control—ideal for scanners, hardening, and surface treatment applications. Scalable. Rugged. Proven. Visit us to explore how UltraFlex solutions boost throughput, cut energy costs, and simplify integration into your heat treat and scanner lines.

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

## **UPTON INDUSTRIES, A KOLENE COMPANY**

### **Booth # 1364**

Upton Industries as a manufacturer of molten salt bath equipment has expanded to more traditional lines of thermal processing equipment including box type, car bottom, liftoff and specialty furnaces utilizing either electric heating or gas fired systems, with or without protective atmosphere control. Upton is a leader in the worldwide supply of equipment in our Engineered Thermal Solutions in the design and manufacture of thermal process systems. Upton is now a Kolene Company.

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

## **VAC AERO INTERNATIONAL INC.**

### **Booth # 1220**

VAC AERO manufactures a wide range of front and bottom loading external quench vacuum furnaces with the highest quality standards to fulfill any specialized processing needs. From small horizontal models to large vertical furnaces VAC AERO vacuum furnaces are ideal for a broad range of vacuum processing applications of specialty alloys and engineered materials including vacuum heat treating and brazing, vacuum sintering, hardening, tempering, annealing and a host of other special processes.

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

## **VERDER SCIENTIFIC, INC.**

### **HEAT TREAT CORPORATE SPONSOR**

#### **Booth # 1013**

Whatever you need for quality testing and material analysis, QATM has it all. As a manufacturer of high-quality machines for materialography (metallography) and hardness testing, we offer the most comprehensive solution for your needs. We supply a wide range of instruments and accessories, consumables, complete laboratories and customized solutions.

[www.verder-scientific.com](http://www.verder-scientific.com)

## **VESCO - A COMPANY OF THE BUSCH GROUP**

### **Booth # 1337**

VESCO is a renowned heat treatment service provider. Combined with Busch, VESCO has over 60 years of experience and specializes in providing tailored service and product solutions to companies of all sizes in the heat treatment industry. Your partner for vacuum furnace, hot zone, and vacuum pump services, delivering unmatched value. Trust VESCO for best-in-class service solutions.

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

# EXHIBITOR COMPANY DESCRIPTIONS

## **VIKING ENGINEERING**

**Booth # 1214**

As the specialty engineering arm of GATE Energy, Viking Engineering supports the design, optimization and integrity of energy facilities and assets.

[www.gate.energy/viking-engineering](http://www.gate.energy/viking-engineering)

## **WELDALOY METALLURGICAL LABORATORY**

**Booth # 1266**

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

## **WILLIAMS INDUSTRIAL SERVICE**

**Booth # 1014**

Williams Industrial Service has been a heat treat equipment and service provider for over half a century. Robustness and longevity have been the hallmark and remain the cornerstone traits of a Williams system. We are at our best when challenged by special processes or specifications. We invite you to experience our attention to detail and innovation.

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

## **WIRCO INC.**

**Booth # 1347**

Wirco is an alloy fabrication and casting company. Headquartered in Avilla, Indiana, with the casting division in Champaign, Illinois, and Waupaca, Wisconsin. We serve the Thermal processing ( Heat Treating), Steel production, Aerospace, and industrial furnace OEM industries. Everything we provide to our customers is made 100% in the USA using all domestically sourced materials. We are also the only foundry in the US that houses an A2LA-certified lab for material testing and certifications.

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

## **WISCONSIN OVEN CORPORATION**

**Booth # 1510**

Wisconsin Oven Corporation has been designing, engineering, and manufacturing industrial ovens, furnaces, and other heating equipment since 1973. Their custom and standard industrial ovens are used for a multitude of applications, including metal finishing, preheating, composite curing, drying, aging, heat-treating, and shrink-fitting, among others. Equipment is available in either batch or continuous designs. Their experienced design team is able to meet even the most stringent standards.

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

## **WS THERMAL PROCESS TECHNOLOGY INC.**

**Booth # 915**

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# EXHIBITOR COMPANY DESCRIPTIONS

## WUXI JUNTENG FANGHU ALLOY CASTING CO.,LTD.

Booth # 1265

Wuxi Junteng Fanghu Alloy Casting Co., Ltd. (FH) is a professional designer and manufacturer of heat-resistant alloy steel casting products. Our main technologies are precision casting and centrifugal casting. Our main products are trays, baskets, radiant tubes, rollers. We have cooperated with many big groups, like Bodycote, Aalberts, DOWA, TIMKEN, SKF, EATON, DANA, SCANIA, BYD, TENOVA-LOI, CAN-ENG, IPSEN, AICHELIN, AFC, SECO/WARWICK, CODERE, IVA-SCHMETZ, etc.  
[www.alloy-casting.com/](http://www.alloy-casting.com/)

## XINGHUA TONGBU CASTING CO., LTD.

Booth # 1511

[www.topcast-carbon.com](http://www.topcast-carbon.com)

## X-SIGHT S.R.O.

Booth # 1554

[www.xsight.eu/](http://www.xsight.eu/)

## ZIRCAR CERAMICS, INC.

Booth # 1065

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