

2022 SHOW GUIDE



SEPTEMBER 13-15





THE PREMIER CONFERENCE FOR
TURBOMACHINERY & PUMP PROFESSIONALS

FOR THE INDUSTRY, BY THE INDUSTRY





THANK YOU TO EVERYONE

Who Made This Event Possible

Dr. Petersen genuinely thanks every one of the advisory committee members, technical session leaders, exhibitors, staff, and attendees for their efforts toward a successful TPS. We present this year another unparalleled exhibit hall and cutting-edge technical program while fostering an environment of networking and promoting continuous education in turbomachinery and pumps.

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TURBOMACHINERY LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

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INTRODUCTION

Welcome to Houston	2
Sponsors	4
WiFi	5
Media Partners	6
TPS Extra Events	8
Association & Event Partners	12
TPS App	14

TABLE OF

INTRODUCTION



Welcome to Houston	2
Sponsors	4
WiFi	5
Media Partners	6
TPS Extra Events	8
Association & Event Partners	12
TPS App	14

Schedule at a Glance	17
Hospitality Suite	22
Innovation Presents Schedule	23
Publication Bins	24

SCHEDULE



PROGRAM



Program Schedule	26
Turbo Advisory Committee	29
Pump Advisory Committee	33
Short Courses	37

CONTENTS



Exhibit Hall Floor Plan	44
Exhibiting Company List	45
Exhibitor Descriptions	47
Categorical Listing	139

About the Turbo Lab	172
Staff Directory	173
Faculty	175
TRC Information	177
General Information	179
Advertisers Index	182



Notes	185
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Aisle Signage



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Bag Sponsor



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Tuesday Water Station



Wednesday Water Station

WELCOME TO THE 51ST TURBOMACHINERY & 38TH PUMP SYMPOSIA!



WI • FI CONNECTION

1. With a Wi-Fi enabled device, find the wireless network named TurboPump.
2. Connect to the wireless network name named TurboPump.
3. Once connected to the network, open up an Internet Browser.
4. You should be automatically redirected to the Splash Page, regardless of what your homepage is set to.
5. There is no password required; you should be free to browse the web via your device.
6. Press the connect button.

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Turbomachinery
INTERNATIONAL

TPS EXTRA EVENTS



WELCOME ADDRESS

For Whom?

All TPS attendees, including Free Pass.

Tuesday: 8:00 a.m. – 8:35 a.m.

Level 3, General Assembly Theater C

WOMEN OF TPS LUNCHEON

For Whom?

All TPS attendees. Registration is required.

Wednesday: 12:00 P.M. – 1:30 P.M.
Room 330

The Women of TPS luncheon is a forum for women of TPS to share experiences and challenges in the industry. It is also an avenue in which those experiences and challenges can be heard and understood by others, including upper management. Both women and men are encouraged to attend. The luncheon is open to all individuals affiliated with the symposium, from technical engineers, to sales and marketing staff, to administrative professionals.

What's included?

- Discussion and Q&A with female panelists discussing things like productivity in the workplace, leadership, diversity on your team, and more
- Bingo (take home a designer purse or other fun prizes!)
- Plated meal



EVENT SPONSORED BY



MOBILE APP

For Whom?

Everyone!

Search for and download our **Turbomachinery & Pump Symposia mobile app** from your favorite app store the week before the event!

Username: Your Registered Email

Password: Reference number in your confirmation email

WELCOME TO THE 51ST TURBOMACHINERY & 38TH PUMP SYMPOSIA!



MARKETERS MEETUP

For Whom?

TPS symposia and Free Pass delegates.

Thursday: 10:00 A.M.

Turbomachinery Laboratory Booth #2022

Network with your colleagues during the TPS Marketers Meetup.

SOCIAL MEDIA SCAVENGER HUNT

For Whom?

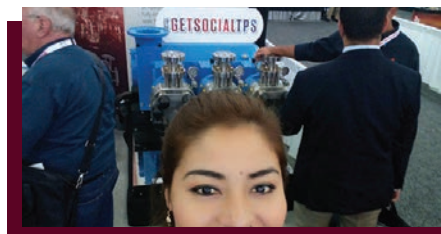
Everyone!

Scattered throughout the TPS exhibit floor are items for our Social Media Scavenger Hunt.

Stop by the Turbo Booth for a scavenger hunt checklist.

Prizes are \$200 Amazon gift cards!

Winners will be announced on **Tuesday and Wednesday at 5:30 P.M. on Facebook Live.**



SPOUSE PROGRAM

For Whom?

Spouses of symposia delegates

Tuesday: 11:15 A.M.

Meet a Turbo Lab staff outside of room 340A of the George R. Brown Convention center to be escorted- Spouses accompanying registered delegates can register for TPS free of charge and are invited to participate in special spouse events.

Enjoy lunch while watching Chef Ruffy's interactive Cooking Demonstration that includes Jerked Shrimp with Mango Peppercorn Chutney.

TPS EXTRA EVENTS



INNOVATION PRESENTS

For Whom?

TPS symposia and Free Pass delegates. Innovation Presents, is a platform in the front corner of the exhibit hall where exhibiting companies provide 20-minute commercial presentations. All TPS exhibit hall visitors are invited to attend the presentations.

DINNERS

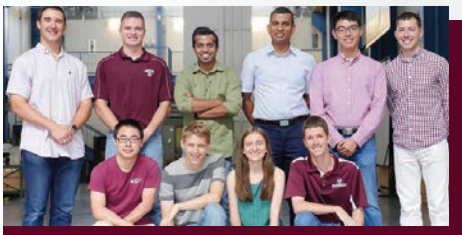
For Whom?

All paid symposium delegates, or those who have purchased meal tickets separately.

The Turbomachinery Laboratory at Texas A&M, TPS organizer, hosts two dinners during the symposia on Tuesday and Wednesday evenings.

Tuesday: Tex-Mex Buffet | 7:30 P.M. – 9 P.M.
Level 2, Hilton Ballroom of the Americas A

WEDNESDAY: Banquet Dinner | 7:30 P.M. – 9 P.M.
Level 2, Hilton Ballroom of the Americas A



LAB TOUR

For Whom?

Everyone!

Thursday: 12:15 P.M.

Meet in front of the gift shop of the Hilton where Transportation will be provided.

You know TPS is hosted by the Turbomachinery Lab, but what do you know about the lab itself? Where is it located? How is it equipped? What research projects are in progress? Take a tour of the Lab at Texas A&M University in College Station on the Thursday afternoon following TPS. Add the tour on to any registration option. Please note that space is limited. Lunch and transportation are provided.

HOSPITALITY SUITES

For Whom?

TPS symposia and Free Pass delegates.

The Hospitality Suites are scheduled Tuesday and Wednesday. All Hospitality Suites are located at Hilton Americas-Houston. See the Schedule at a glance for more information.



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EXTENDED SHORT COURSES

The Turbo Lab offers extended short courses throughout the year led by industry experts and academics. Courses range from three to five days and offer working professionals valuable education opportunities in an interactive environment.

MACHINERY VIBRATION & ROTORDYNAMICS | JANUARY 16-20, 2023

DoubleTree by Hilton IAH Hotel

The course is designed to benefit both young engineers and veterans. The course will cover basic vibration theory and how to use it to solve mechanical vibration problems experienced in the field. Rotordynamics terminology in common use will be defined and explained, including critical speeds, critical speed inversion, unbalance response and rotordynamic instability.

CENTRIFUGAL COMPRESSOR OPERATIONS | APRIL 17-20, 2023

Centrifugal Compressor Operations for 21st Century Users (CCOPS) is intended for beginning- and intermediate-level professionals to accelerate their understanding of centrifugal compressors and how they are used in oil & gas applications. The course covers design aspects, aerodynamics, rotordynamics, the practical applications of installation, testing, commissioning and procurement.

ROTORDYNAMICS | APRIL 17-20, 2023

The Rotordynamics short course is for beginning- and intermediate-level engineers in the petroleum, chemical, power and gas industries. It provides a basis for understanding the rotordynamics—the behavior and diagnosis— of turbines, compressors, expanders, motors, pumps and generators and their subcomponents to help select, analyze, troubleshoot and repair them for maximum reliability. The course is packed with case studies and workshops for hands-on evaluation of actual machines.

RECIPROCATING MACHINERY DYNAMICS | APRIL 17-20, 2023

The course is intended for engineers/analysts who work with plant machinery and piping and must make decisions about the reliability and safety of systems experiencing high vibration.

LEARN MORE AT
TURBOLAB.TAMU.EDU/SHORT-COURSES-2

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TURBOMACHINERY & PUMP SYMPOSIA

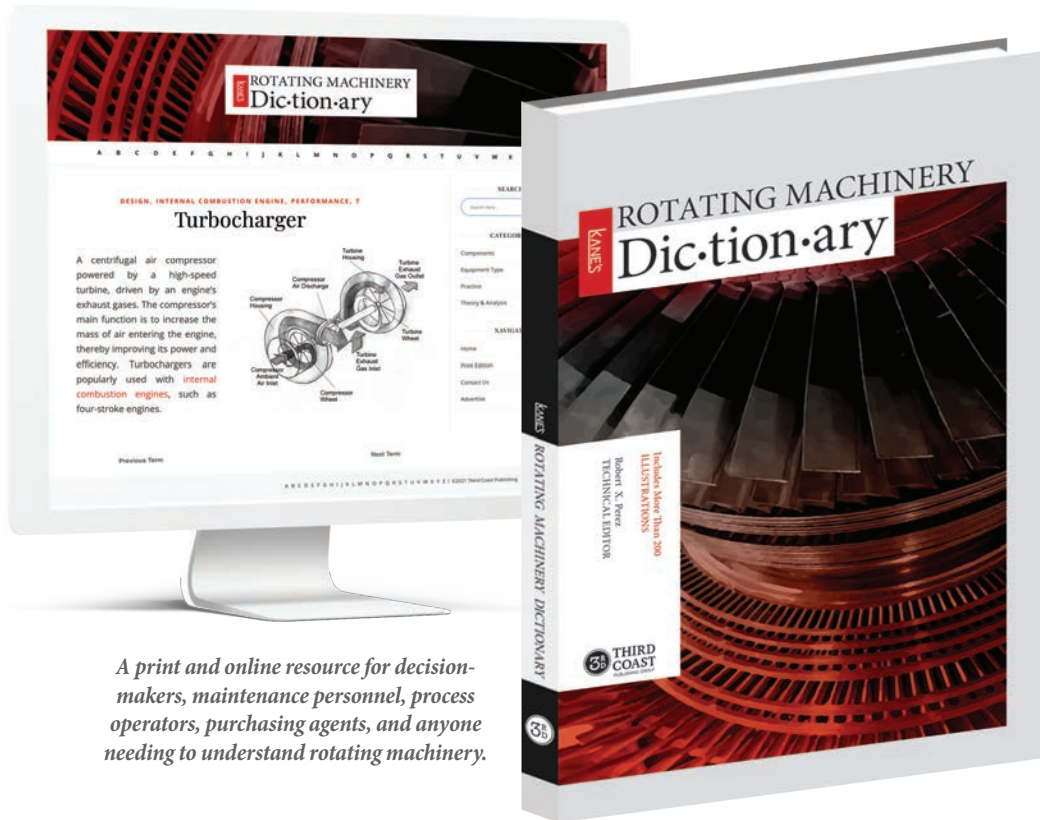
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WELCOME TO THE 51ST TURBOMACHINERY & 38TH PUMP SYMPOSIA!

KANE'S

ROTATING MACHINERY Dictionary



A print and online resource for decision-makers, maintenance personnel, process operators, purchasing agents, and anyone needing to understand rotating machinery.

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how to find them?



VISIT

The Exhibitors section
in this book.

SCHEDULE

Schedule at a Glance	Schedule Tab
Hospitality Suite	22
Innovation Presents Schedule	23
Publication Bins	24

SCHEDULE

AT A GLANCE

SUNDAY, SEPTEMBER 11, 2022

4:30 P.M. – 6:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
4:30 P.M. – 6:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
4:30 P.M. – 6:00 P.M.	Leader Registration	Level 3, Room 340A

MONDAY, SEPTEMBER 12, 2022

7:00 A.M. – 12:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
7:00 A.M. – 12:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
7:00 A.M. – 12:00 P.M.	Leader Registration	Level 3, Room 340A
8:30 A.M. – 5:00 P.M.	Short Courses	Level 3
12:00 P.M. – 1:15 P.M.	Short Course Luncheon	Level 3, George Bush Grand Ballroom C
1:30 P.M. – 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
1:30 P.M. – 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
1:30 P.M. – 5:00 P.M.	Leader Registration	Level 3, Room 340A
5:30 P.M. – 6:00 P.M.	Turbo Advisory Committee Meeting	Level 3, Room 330A
6:00 P.M. – 6:30 P.M.	Pump Advisory Committee Meeting	Level 3, Room 330A

TUESDAY, SEPTEMBER 13, 2022

7:00 A.M. – 7:45 A.M.	Leader Breakfast	Level 3, Room 330A
7:30 A.M. – 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
7:30 A.M. – 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
7:30 A.M. – 5:00 P.M.	Leader Registration	Level 3, Room 340A
8:00 A.M. – 8:35 A.M.	Welcome Address	Level 3, General Assembly Theater C
8:45 A.M. – 12:00 P.M.	Symposia Technical Sessions	Level 3
11:00 A.M. – 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C,D,E
12:00 P.M. – 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Halls C,D,E
1:30 P.M. – 7:00 P.M.	Free Pass Registration	Level 1, Exhibit Hall D
2:00 P.M. – 3:30 P.M.	Symposia Technical Sessions	Level 3
2:30 P.M. – 7:00 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Hall
7:00 P.M. – 10:00 P.M.	Hospitality Suite	Hilton Americas, Room 340AB
7:30 P.M. – 9:00 P.M.	Tex-Mex Buffet (Badges required – Not open to Free Pass)	Hilton Ballroom of the Americas A

SCHEDULE

AT A GLANCE

WEDNESDAY, SEPTEMBER 14, 2022

7:30 A.M. – 8:15 A.M.	Leader Breakfast	Level 3, Room 330A
8:00 A.M. – 5:00 P.M.	Exhibitor Registration	Level 1, Exhibit Hall D
8:00 A.M. – 5:00 P.M.	Delegate Registration	Level 3, Prefunction Area 340/350
8:00 A.M. – 5:00 P.M.	Leader Registration	Level 3, Room 340A
8:00 A.M. – 5:00 P.M.	Booth Selections for 2023	Level 1, Exhibit Hall D, Exhibitor Registration Counter
8:30 A.M. – 12:00 P.M.	Symposia Technical Sessions	Level 3
11:00 A.M. – 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C,D,E
12:00 P.M. – 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Halls C,D,E
1:30 P.M. – 6:30 P.M.	Free Pass Registration	Level 1, Exhibit Hall D
2:00 P.M. – 3:30 P.M.	Symposia Technical Sessions	Level 3
2:30 P.M. – 6:30 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Hall
7:30 P.M. – 9:00 P.M.	Banquet (No entry after 7:45 P.M. Badges required – Not open to Free Pass)	Level 2, Hilton Ballroom of the Americas D

WELCOME TO THE 51ST TURBOMACHINERY & 38TH PUMP SYMPOSIA!

THURSDAY, SEPTEMBER 15, 2022

7:30 A.M. – 8:15 A.M.	Leader Breakfast	Level 3, Room 330A
8:00 A.M. – 11:00 A.M.	Exhibitor Registration	Level 1, Exhibit Hall D
8:00 A.M. – 11:00 A.M.	Delegate Registration	Level 3, Prefunction Area 340/350
8:00 A.M. – 11:00 A.M.	Leader Registration	Level 3, Room 340A
8:00 A.M. – 11:00 A.M.	Booth Selections for 2023	Level 1, Exhibit Hall D, Exhibitor Registration Counter
8:30 A.M. – 12:00 P.M.	Free Pass Registration	Level 1, Exhibit Hall D
8:30 A.M. – 12:00 P.M.	Symposia Technical Sessions – Case Studies	Level 3
9:30 A.M. – 12:00 P.M.	Exhibits Open Free to Public	Level 1, Exhibit Hall
12:00 P.M. – 2:00 P.M.	Turbo and Pump Advisory Committee Luncheon	Level 3, 330A

HAVE YOU RESERVED YOUR BOOTH FOR TPS 2023?

Visit the Exhibitor Registration Counter in Hall D to book before you leave TPS 2022.

WEDNESDAY, SEPTEMBER 14

8:00 A.M. - 5:00 P.M.

THURSDAY, SEPTEMBER 15

8:00 A.M. - 11:00 A.M.

TPS 2023: SEPTEMBER 26-28, 2023
SHORT COURSES SEPTEMBER 25TH

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HOSPITALITY SUITE

SCHEDULE

TUESDAY, SEPTEMBER 13, 2022

7:00 P.M. – 10:00 P.M.

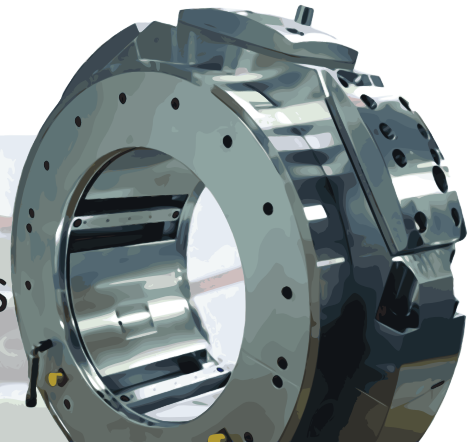
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INNOVATION PRESENTS

SCHEDULE

Located in the front of Exhibit Hall C

Innovation Presents, formerly Turbo Stage, is a platform in the front corner of the exhibit hall (House left, aisle 3300) where exhibiting companies provide 20-minute commercial presentations.

TUESDAY, SEPTEMBER 13, 2022

3:30 P.M. – 3:50 P.M.	Applied Flow Technology – Nick Vastine “Pulsation & Vibration (Flow Induced and Acoustic)”
4:00 P.M. – 4:20 P.M.	EcoTech – Trent Cameron “Innovative Mag Drive Technology”
4:30 P.M. – 4:50 P.M.	A.W. Chesterton – Juan Cid “Increasing Pump and Seal Reliability Through Monitoring”
5:00 P.M. – 5:20 P.M.	John Crane – Volker Hintz “Digitally Enabled Zero-Emissions Seal: Leading the Way Towards a Low-Carbon Footprint”
5:30 P.M. – 5:50 P.M.	T.F. Hudgins – Keith Macaluso “Oil Mist”

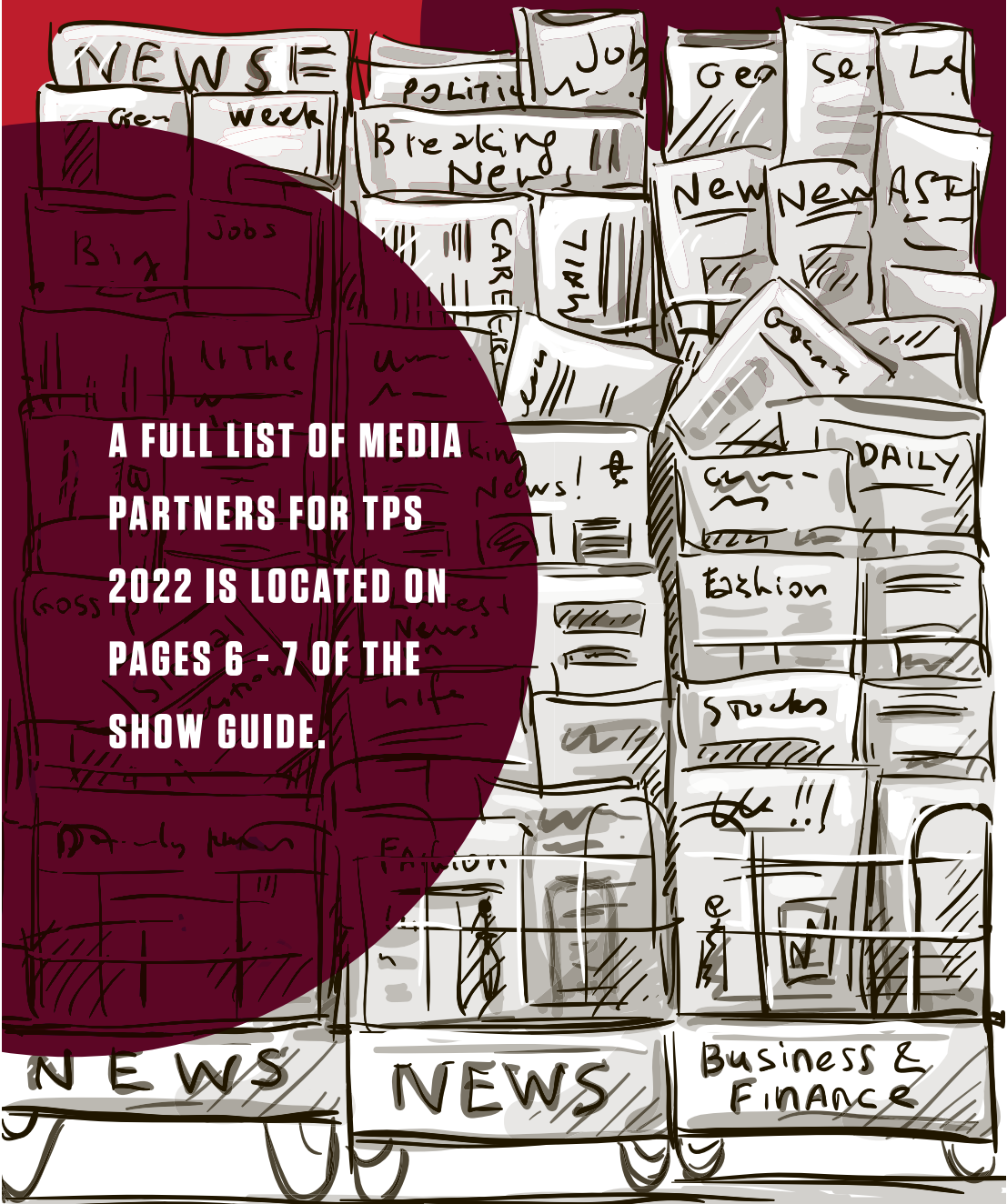
WEDNESDAY, SEPTEMBER 14, 2022

3:30 P.M. – 3:50 P.M.	Burckhardt Compression – Heinz Meier “From Health-Check to Zero Emission”
4:00 P.M. – 4:20 P.M.	Novity – Nilesh Tralshawala “Critical Asset Predictive Maintenance with Data-Driven and Physics-Based Models”
4:30 P.M. – 4:50 P.M.	ETU i+D S.A. de C.V. – Oscar De Santiago “Innovations On Seal Gas Systems Reliability Increment”
5:00 P.M. – 5:20 P.M.	Turbomachinery Laboratory – Greg Gammon “Research, Education, and Workforce Development: The Turbomachinery Laboratory Overview”

VISIT THE PUBLICATION BINS

Peruse some of your favorite trade magazines, and pick up some new ones!

Publications of our TPS 2022 media partners are located in the front of the exhibit hall.



**A FULL LIST OF MEDIA
PARTNERS FOR TPS
2022 IS LOCATED ON
PAGES 6 - 7 OF THE
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PROGRAM

PROGRAM

Program Schedule	26
Turbo Advisory Committee	29
Pump Advisory Committee	33
Short Courses	37

Women of TPS

WEDNESDAY LUNCHEON, SEPTEMBER 14
12:00 – 1:30pm • \$50 • Room 330

Visit the registration counters on Level 1 or Level 3 to purchase your ticket.
Note that space is limited.

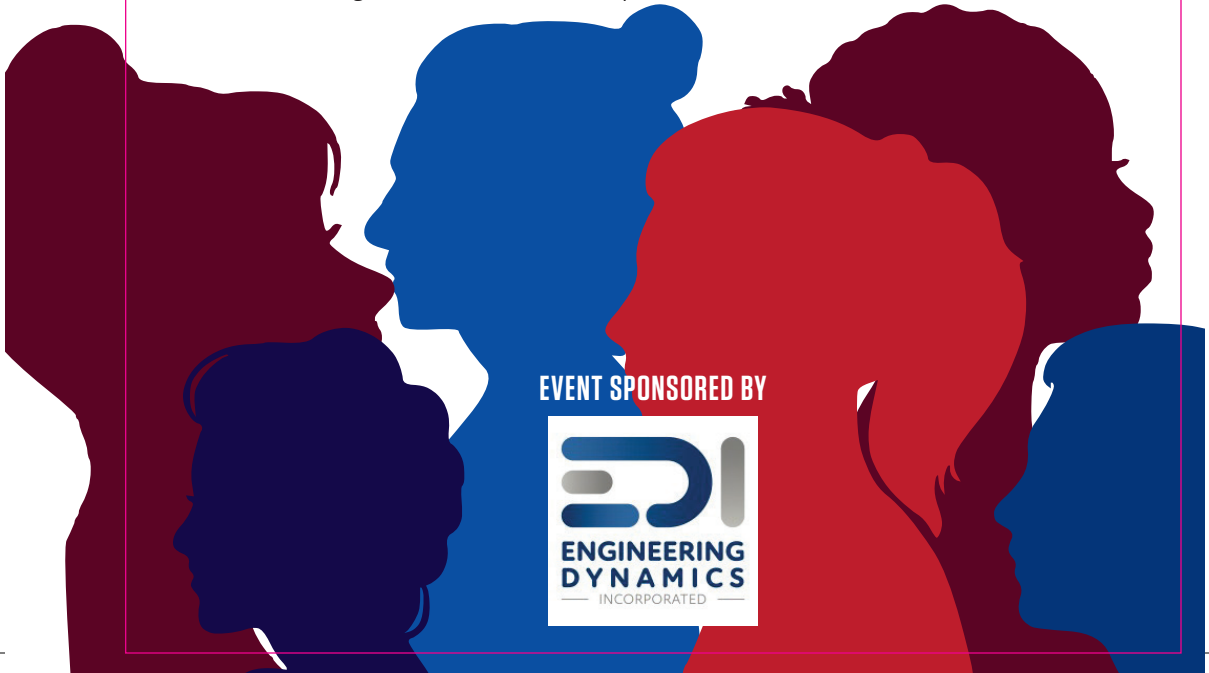
What's Included?

- Discussion and Q&A with four female panelists representing the wide breadth of TPS and the turbomachinery and pump communities
- Bag bingo (take home a designer purse or bag!)
- Plated meal

The Women of TPS luncheon is a forum for women of TPS to share experiences and challenges in the industry. It is also an avenue in which those experiences and challenges can be heard and understood by others, including upper management.

Both women and men are encouraged to attend. The luncheon is open to all individuals affiliated with the symposium, from technical engineers, to sales and marketing staff, to administrative professionals.

EVENT SPONSORED BY



PROGRAM SCHEDULE

MONDAY, SEPTEMBER 12, 2022 | SHORT COURSES

8:30 A.M. – 10:00 A.M.	Short Courses	Level 3, Meeting Rooms
10:00 A.M. – 10:30 A.M.	Break	Level 3, Lounge Area
10:30 A.M. – 12:00 P.M.	Short Courses	Level 3, Meeting Rooms
12:00 P.M. – 1:30 P.M.	Short Course Luncheon	Level 3, George Bush Grand Ballroom C
1:15 P.M. – 3:00 P.M.	Short Courses	Level 3, Meeting Rooms
3:00 P.M. – 3:30 P.M.	Break	Level 3, Lounge Area
3:30 P.M. – 5:00 P.M.	Short Courses	Level 3 Meeting Rooms
5:30 P.M. – 6:00 P.M.	Turbo Advisory Committee Meeting	Level 3, Room 330A
6:00 P.M. – 6:30 P.M.	Pump Advisory Committee Meeting	Level 3, Room 330A

TUESDAY, SEPTEMBER 13, 2022 | TECHNICAL SESSIONS DAY 1

8:00 A.M. – 8:35 A.M.	Welcome Address	Level 3, General Assembly Theater C
8:45 A.M. – 10:15 A.M.	Symposia Technical Sessions	Level 3, Meeting Rooms
10:15 A.M. – 10:30 A.M.	Break	Level 3, Lounge Area
10:30 A.M. – 12:00 P.M.	Symposia Technical Session	Level 3, Meeting Rooms
11:00 A.M. – 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C,D,E
12:00 P.M. – 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Hall C,D,E
2:00 P.M. – 3:30 P.M.	Symposia Technical Sessions	Level 3, Meeting Rooms

WEDNESDAY, SEPTEMBER 13, 2022 | TECHNICAL SESSIONS DAY 2

8:30 A.M. – 10:00 A.M.	Symposia Technical Sessions	Level 3, Meeting Rooms
10:00 A.M. – 10:30 A.M.	Break	Level 3, Lounge Area
10:30 A.M. – 12:00 P.M.	Symposia Technical Sessions	Level 3, Meeting Rooms
11:00 A.M. – 12:00 P.M.	Lunch for Exhibitors	Level 1, Exhibit Halls C,D,E
12:00 P.M. – 2:00 P.M.	Lunch & Exhibits Open to Paid Delegates	Level 1, Exhibit Halls C,D,E
2:00 P.M. – 3:30 P.M.	Symposia Technical Sessions	Level 3, Meeting Rooms

THURSDAY, SEPTEMBER 15, 2022 | CASE STUDIES

8:30 A.M. – 10:00 A.M.	Case Studies	Level 3, Meeting Rooms
10:00 A.M. – 10:30 A.M.	Break	Level 3, Lounge Area
10:30 A.M. – 12:30 P.M.	Case Studies	Level 3, Meeting Rooms
12:30 P.M. – 6:30 P.M.	College Station Lab Tour	

A MORE DETAILED SCHEDULE
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2024

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TURBO

ADVISORY COMMITTEE

The 51ST Turbomachinery Symposium is sponsored by the Turbomachinery Laboratory of the Texas A&M Engineering Experiment Station, The Texas A&M University System. The Advisory Committee for this symposium is composed of engineers from various user and manufacturing corporations throughout the U.S. and abroad. The presenters of Lectures, Tutorials, Case Studies, and the Discussion Leaders are leaders from the rotating equipment community. The Advisory Committee is greatly indebted to these individuals for their participation and outstanding contributions.

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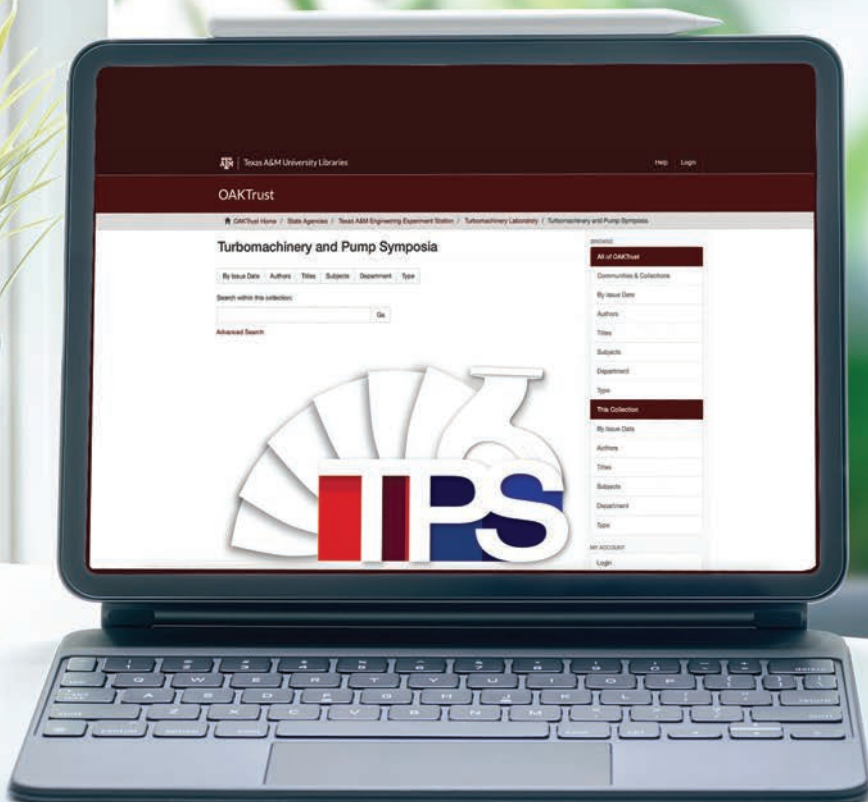
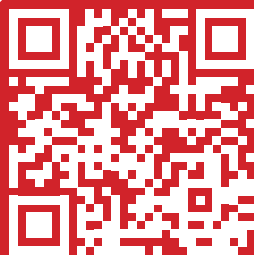
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PUMP

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The 38TH Pump Users Symposium is sponsored by the Turbomachinery Laboratory of the Texas A&M Engineering Experiment Station, The Texas A&M University System. The Advisory Committee for this symposium is composed of engineers from various user and manufacturing corporations throughout the U.S. and abroad. The presenters of Lectures, Tutorials, Case Studies, and the Discussion Leaders are leaders from the fluid-handling-equipment community. The Advisory Committee is greatly indebted to these individuals for their participation and outstanding contributions.

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TURBO

SHORT COURSES

A short course is a full-day training session presented concurrently with other sessions.

SHORT COURSE

Mechanical Seal Fundamentals

Monday, September 12, 2022

INSTRUCTORS

Mike Huebner (Consultant), Steven Bullen (A. W. Chesterton Co.), Brian Kalfrin (John Crane), Christopher Ropp (Flowserve)

DESCRIPTION

Mechanical seals continue to be the most effective and efficient solution for sealing rotating pumps and other fluid handling equipment. Many people in the industry however have little knowledge on how mechanical seals work, how they should be operated, and methods for troubleshooting seals and sealing systems. This knowledge is required to properly select seals, install them, and operate them to achieve maximum performance and reliability. This short course is intended to address the needs for all personnel who interact with mechanical seals such as engineers, users, installers, purchasers, reliability engineers, and other industrial plant functions. The attendees will also be able ask questions and work directly with industry leading engineers from multiple seal manufacturers.

SHORT COURSE

Motor and VFD Principles

Monday, September 12, 2022

INSTRUCTORS

Tim Albers (Nidec US Motors), Jeff Bergman (ABB)

DESCRIPTION

Electric motors are a key driver within a plants rotating machinery applications. Safe and reliable operation, of the electric motor and the components that control them, are key to plant success. With the industry's push for more efficient systems with higher automation, the requirement to use electric motors with VFDs is becoming more popular. This course will educate the participant on the general function, application, installation, maintenance and troubleshooting of the electric motor and VFD as a system. It will also cover the interaction the motor and the VFD have with key turbo machinery applications.

SHORT COURSE

API 610 12th Edition Short Course

Monday, September 12, 2022

INSTRUCTORS

Frank Korkowski (Applied Knowledge Consulting), Roger Jones, Jeremy Cooper (Bechtel)

DESCRIPTION

The course provides an in-depth review of the API 610 12th Edition standard for technical decision makers who deal with pump selection and reliability daily. It is intended for those individuals in the following fields: Project engineering, Reliability Engineering, Rotating Equipment Engineering and Procurement. Other personnel requiring knowledge or a refresher on fundamentals of centrifugal pumps design and operation will find this course also helpful.

SHORT COURSE

Pump Cavitation: Physics, Prediction, Control, Troubleshooting

Monday, September 12, 2022

INSTRUCTORS

Frank Visser, Bruno Schiavello (Flowserve)

DESCRIPTION

This short course gives insight into roto-dynamic pump cavitation and provides deeper understanding of particulars like cavitation inception, three-percent head drop, 40,000 hours life criterion, cavitation damage potential, NPSHR scaling laws, the effect of dissolved gas, and thermodynamic effect for hot water and hydrocarbons. Empirical correlations for predicting various types of NPSHR and the use of CFD will be discussed, and suction specific speed will be critically reviewed, along with criteria for NPSHA margin. Furthermore, the effect of fluid transients and viscosity will be addressed. Cavitation damage potential will be fully explained by the Cavitation Modes Map, which reflects fundamental insight gained since the 1940s; here in particular the striking departure in shape from the NPSH3 curve for part flows is highlighted, being a key reason of many cavitation pump problems. Attention is further devoted to Impeller Life Expectancy and Cavitation Control with modern designs tools. In conclusion, four field case studies will demonstrate the use of cavitation failure analysis and solution strategy.

SHORT COURSE

Waterhammer: Predicting pressures & pipe forces, mitigation options and understanding Surge in Pumping Systems

Monday, September 12, 2022

INSTRUCTORS

Trey Walters (Applied Flow Technology),
Amy Marroquin, Frank Smith (BLACOH)

DESCRIPTION

Waterhammer, also known as “Surge” or “Transients” can be a challenging problem to address in system design. The intricacies of waterhammer from the behavior itself to the damage it causes all the way to suppressing it, are both intriguing but also quite often overwhelming. This is especially true when learning of waterhammer in brief sessions. This course will take the time necessary to provide not only an overview of waterhammer but a deeper dive into its intricacies. Topics that will be covered include incidents and accidents due to waterhammer, historical background, current codes, standards and guidelines, the physics and behavior of waterhammer, the effect of various types of equipment such as motors, pumps, check valves, vessels, control valves, air vacuum valves, etc., current methods, tools and processes for analyzing and measuring waterhammer and finally methods and considerations for suppression. Participants will leave the course with a more firm understanding of waterhammer and numerous contacts and references for future use.

TURBO

SHORT COURSES

SHORT COURSE

Vibration Problems and Solutions in Pumps and Turbomachinery

Monday, September 12, 2022

INSTRUCTORS

William Marscher, Eric Olson, Maki Onari, Paul Boyadjis (Mechanical Solutions, Inc.)

DESCRIPTION

This course presents analysis and testing methods for pumps and turbomachinery. Focus is on centrifugal pumps of all types, centrifugal compressors, axial compressors, fans, steam turbines and gas turbines. Rotordynamics and bladed disk vibration are included as modules as well as discussion of fluid-induced vibration (e.g. rotating stall and blade pass frequencies), acoustics, and mechanically induced vibration (imbalance misalignment, rubs, looseness). Troubleshooting methods and fixes are discussed with many detailed case histories

SHORT COURSE

Centrifugal Compressors (CC) 101

Monday, September 12, 2022

INSTRUCTORS

Mark Kuzdal (Dresser-Rand), Jay Koch (Siemens)

DESCRIPTION

This course is aimed at engineers and technical professionals who need a broad-based introduction to centrifugal compressor design and analysis. This course starts with the basics and builds to provide a full understanding of a centrifugal compressor. The course will include the following topics: reciprocating, axial and centrifugal compressor

similarities/differences; centrifugal compressor configurations; design consideration; and balancing aerodynamic, rotordynamic and mechanical consideration. The course will answer the question "How do they work?" Factory testing, and future challenges. At the completion of the course, the attendees will hold a strong understanding of basic concepts. This knowledge will act as a springboard to further growth understanding of more complex centrifugal compressor concepts. An emphasis is placed on providing practical information with minimal theory. This is NOT a centrifugal compressor operations and maintenance class.

SHORT COURSE

Centrifugal Compressors (CC) 201

Monday, September 12, 2022

INSTRUCTORS

Jeff Moore (SWRI), James Sorokes (Siemens), Rainer Kurz (Solar Turbines Inc), Jay Koch (Siemens), James Hardin (Elliott Group)

DESCRIPTION

This course supplements the Centrifugal Compressor 101 course by covering in greater detail four key areas related to compressors: aerodynamics, rotordynamics, performance and mechanical testing, and surge control. It is intended for those who attended the 101 course and wish to learn more about these topics. The course is also structured for those practicing rotating machinery engineers who have a basic understanding of the topics covered in CC101 but wish to further their understanding in these key areas.

SHORT COURSE

Babbitted Bearing Operation & Diagnosis

Monday, September 12, 2022

INSTRUCTORS

John Whalen (Consultant), Joy Brinkerhoff Patten (Solar Turbines), Elona Rista (Solar Turbines)

DESCRIPTION

This course is intended for engineers and technicians working with critical rotating equipment. The course will also benefit managers and supervisors that have some rotating equipment responsibility. While most of the material is introductory, it will provide a refresher and perhaps some new information for the more experienced engineers. Those attending will learn about the fundamentals of hydrodynamic lubrication and how that is utilized with journal and thrust bearings in industrial and power generation turbomachinery. An introduction to oil analysis and API 670 instrumentation will be followed by rudimentary evaluation of data from these systems to understand the condition of bearings in operation.

SHORT COURSE

Lateral Rotordynamics of Petrochemical Equipment - Review, Examples and Problems

Monday, September 12, 2022

INSTRUCTORS

John Kocur (Exxonmobil), Hunter Cloud (BRG Machinery Consulting)

DESCRIPTION

This short course, recently updated with several new case studies, will present the basics of rotordynamics and its application to turbomachinery. Shaft stiffness considerations, tilting pad journal bearing influence on stiffness and damping coefficients, influence of support stiffness and labyrinth and honeycomb seal impact on stability are some of the concepts covered. Basic rotordynamic analyses; undamped critical speeds, response to unbalance and rotor stability will be presented and their use in understanding the rotor behavior explained. Case studies showing problem solving using rotordynamic analysis are a key feature. The student should come away from the course with an appreciation for rotordynamic behavior, an ability to interpret rotordynamic predictions and an awareness of when this tool should be applied to ensure operability and reliability of equipment.

TURBO

SHORT COURSES

SHORT COURSE

Advanced Steam Turbine

Monday, September 12, 2022

INSTRUCTORS

Klaus Brun (SWRI), Arun Kumar (HPCL – Mittal Energy Ltd, India), Brian Pettinato (Elliott Group), Adam Neil, Steve Rashid, Derrick Bauer

DESCRIPTION

For a typical centrifugal compressor, The class will provide the attendee with an overview of advanced steam turbine design, applications, operation, and maintenance topics. The topics will also cover advanced turbine design practices to optimize steam supply efficiency and how to maintain equipment reliability. The class will cover areas related to the interactions between the multiple critical components of a steam turbine and how to ensure long term operability. The course is intended and structured for those who already have a basic understanding of rotating machinery and wish to further their understanding in key steam turbine technology areas with a primary focus on oil & gas applications.

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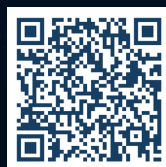


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EXHIBITORS

Exhibit Hall Floor Plan	44
Exhibiting Company List	45
Exhibitor Descriptions	47
Categorical Listing	139



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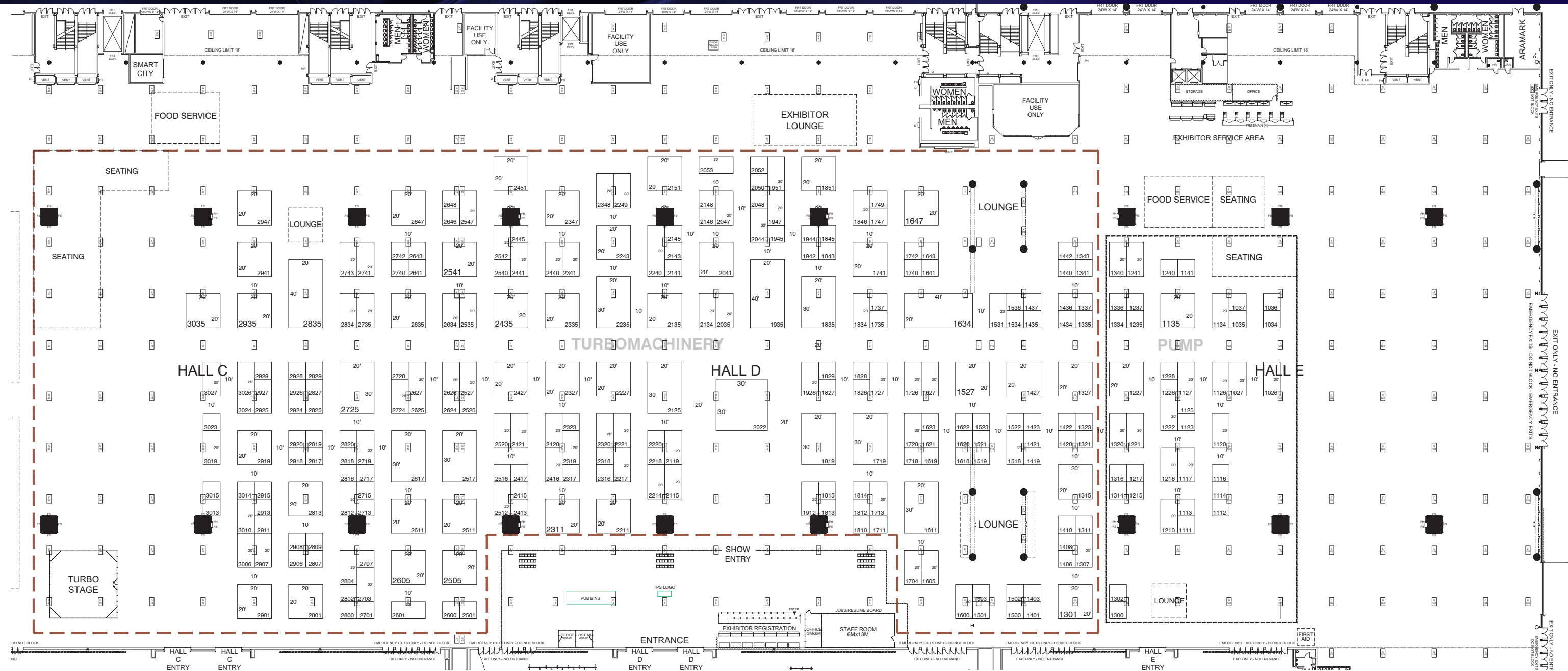
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EXHIBITORS 44

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RESERVATIONS

EXHIBITING
COMPANIES

A.W. Chesterton Company	2327
ABB Motors and Mechanical Inc	2617
Access Intelligence (Chemical Engineering Magazine/Power/Electric Power)	1302
ACE Compressor Services	2901
Adhesive Services Company	1519
Advanced Compressor Technology	2812
Aerzen USA Corporation	2947
Aikoku Alpha Co.	1623
Alfred Conhagen Inc. of Texas	2421
All Cert Training, Inc.	1435
Alloy Coating Supply	1406
Alpha Laser-US, Inc.	2214
Alta Solutions, Inc.	2829
Altra Industrial Motion Corp.	1926
American Hofmann Corporation	2713
American Society of Mechanical Engineers (ASME)	2417
Applied Flow Technology	1420
Ariel Corporation	2505
Arkos Field Services, LP	1741
Artec Machine Systems	1828
Atlantic Group, Inc.	1228
Atlas Copco Gas and Process	1634
Axis Mechanical Group	1851
Babbiting Service, Inc. (BSI)	2742
Becht	2701
Bently Nevada	2835
Boerger, LLC	1235
Boll Filter Corporation	2441
Boulden Company Inc.	1720
Bruel & Kjaer Vibro	2347
Buffalo Pumps	2800
Burckhardt Compression (US) Inc.	1741
B-W Grinding Service Inc.	2119

Camfil Power Systems	1713
CCC (Compressor Controls Corporation)	1935
Celeros Flow Technology	1436
CEROBEAR GmbH	1942
CFturbo, Inc.	2926
Champion Hi-Tech Mfg. Co., Inc.	1846
Cincinnati Gearing Systems	2243
COBEY, Inc.	1727
Compressor & Turbine Services, LLC	2927
Concepts NREC	1834
Connection Technology Center	2803
Continental Controls	2643
Cooling Technology Institute	2928
Coupling Corporation of America	1434
CPC Pumps International	1634
Craft Pattern & Mold Inc.	1122
Cryostar USA LLC	2044
CTS, Inc.	1501
Custom Engineering Company	2817
D&S Engineered Products	2624
Delta Fluid Systems Inc	1321
Dickow Pump Company, Inc.	1300
Drake Controls	2541
e+a	1522
EagleBurgmann Germany GmbH & Co. KG	2427
Eastern Alloy	2420
EcoTech & CP Pumpen	2919
Elliott Group	2125
Emerson	2725
Emory Industrial Services	1737
Empowering Pumps & Equipment	1134
Energy Control Technologies, Inc.	2941
Engineering Dynamics, Inc.	1845
Equity Engineering Group, The	1740

EthosEnergy Field Service	2525
ETU I+D SA DE CV	1814
Eura Investment Canada Ltd.	2646
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Field Industries	1843
Flender-Graffenstaden	2221
Flexaseal Engineered Seals and Systems, LLC	1301
FlexElement	2316
Flowserve Corporation	1611
Fusion, Inc.	1600
Gas & Air Systems, Inc.	2816
Gas Compression Magazine / Third Coast Publishing	2724
GBS Casting	1500
GEA Systems North America LLC	2741
Goodrich Industrial Couplings	2135
Graphite Metallizing Corp	1117
Greene Tweed	2516
Gulf Coast Bearing & Seal, LLC	1720
H & M Plating & Thermal Spray	2318
Hammelmann Corporation	1323
Hankuk Airro	1336
Hanwha Power Systems America, Inc.	2547
Hayward Tyler	1114
Hebei Metals & Minerals Corp. Ltd	1034
Henderson Engineering Co., Inc.	2906
Henkel Loctite Corporation	1116
Hermetic Pumps Inc.	1427
HILCO Filtration	2520
Hoerbiger Compression Technology	2211
Hoosier Pattern Inc	1226
Houston Dynamic Service, Inc.	2035
Howden	1327
HSI	2807

Hydraulic Institute	1337
Hydro Inc.	1227
Hydrocarbon Processing	2048
Ideal Electric Company	1813
Ingersoll Rand	2435
Interface Inc.	1419
Isomag Corporation	1827
ITT Inc.	2611
ITW	2825
John Crane	1835
Kaydon Ring & Seal, Inc.	2143
Kelm Engineering, LLC	1618
Kennametal	1340
KHL Group	2134
Kingsbury, Inc.	2635
Kistler Instrument Corp	2802
KnightHawk Engineering, Inc.	2145
Kobelco Compressors America, Inc.	2240
Kongsberg Maritime Inc.	1401
Kraft Werks Engineering	1619
KRAL-USA, Inc.	1334
KRMEA	2717
KSB SupremeServ	1135
Kulite Semiconductor Products, Inc.	2740
L.A. Turbine Corp.	2341
Lancer Systems	1423
Leistritz Advanced Technologies Corp.	1126
LEWA-Nikkiso America, Inc.	1127
Lincoln Electric Additive Solutions	3026
LobePro Rotary Pumps	1123
Lone Star Blower and Compressor	3035
Lube-Power, Inc.	1237
Ludeca, Inc.	2627
Maag Americas	1113
Machine Saver Inc	2827

MachVib Services Corporation	2935
Master Builders Solutions	2625
Maudlin Products	1718
Mayekawa U.S.A., Inc.	2813
McNally-LLC	2648
Mechanical Repair & Engineering, LP	1826
Mechanical Solutions, Inc.	1335
Meridian Equipment, Inc.	1534
Metcar	1523
Metrix Vibration	1935
Miba Industrial Bearings	2511
Mitsubishi Chemical Group	2041
Mitsubishi Heavy Industries Compressor International	1819
Modern Power Systems	1621
Modern Pumping Today	1241
MSHS	2319
NAMCO Machine & Gear Works Ltd.	2047
National Compressor Services	3019
Netzsch Pumps North America LLC	1035
Nidec Industrial Solutions	1605
Nidec-Kato Engineering	1704
Nikkiso Cryogenic Industries	2605
Nord-Lock Group	1641
Novity	1945
NRG Energy Services	2146
Oerlikon Metco	1125
Omega Renk Bearings Pvt. Ltd.	2512
OROS Americas Inc	2218
Palladian Publications	1521
Partners Specialties, Inc.	1437
Peerless PROCORE	2540
Peroni Pumps America	1314
Petroleum Products & Solutions, LLC	2920
PetroPages Industrial Marketing	2834

Philadelphia Gear	2416
Poseidon Systems, LLC	1316
Praxair Surface Technologies	1622
Precision Machinery Contractors	2634
Predicta4	1240
Premium Alloys	2323
Prognost Systems, Inc.	2217
ProMRO Cloud ERP by Clients First	2924
Pruftechnik	2148
Pumps & Systems Magazine	1210
PumpWorks 610 / DXPE	1221
PumpWorks Industrial	1320
PVTVM, Inc.	2918
Ram Alloys	1307
RDI Technologies	2415
Regal Rexnord	2335
Reinhart & Associates, Inc.	2501
RelaDyne, LLC	2707
Reliable EDM	2818
RENK GmbH	1726
Revak Keene Turbomachinery, LP	2451
REXA, Inc.	1518
Riverhawk Company	2535
ROC Carbon Company	1810
Rogers Equipment Sales	2445
Rotating Equipment Repair	1315
Rotating Machinery Services, Inc.	1527
Rotech Pumps USA Inc	1222
Roth Pump Company	1217
Rotoflow, An Air Products Business	2719
Royal Purple Synthetic Oil	2743
Ruthman Companies Pumps	2050
S.T. Cotter Turbine Services, Inc.	1951
S2W Contracting LLC	1812
Samco Enterprises	1440

Schneider Electric	1912
Schunk GmbH	1408
Scott Rotary Seals	3014
Sealing Equipment Products Company (SEPCO)	1215
Sensorade SA	2819
Settima USA Inc.	2907
Shackelford-Wattner	2115
Shaft Earthing Solutions	1502
Shanley Pump & Equipment	1026
Shin Nippon Machinery	1947
Siemens Energy	2227
Siemens Large Drives LLC	1421
SIFCO ASC	1311
Simerics, Inc.	2911
SKF S2M Magnetic Bearings	2141
SLM Solutions	1403
SMP (Specialty Maintenance Products	1643
SoftInWay, Inc.	1815
Sohre Turbomachinery Inc.	2728
Solar Turbines Incorporated	1719
Solberg Oil Mist Eliminators	1503
Southern States Millwrights	2052
Southwest Impreglon	2413
Sparkcognition	1410
Spectra Quest, Inc.	2908
Spring Point Solutions	3023
SSS Clutch Company, Inc.	2320
Stein Seal Industrial Division	2527
Stork H&E Turbo Blading	2220
Structural Technologies	2913
Sullair A Hitachi Group Co	2517
Sumitomo Heavy Industries Gearbox Co., Ltd.	2647
Sundyne	2235
SWRI - Southwest Research Institute	2626

T.F. Hudgins	1627
Technogenia	1742
TechStar	2348
Teikoku USA	1216
Tern Technologies, Inc.	1735
Texas Compression LLC	2915
The Vibration Guys LLC	3027
Thomas Pump & Machinery	1027
Thordon Bearings Inc.	1711
Torquemeters Limited	2735
Total Industrial Services Specialties, Inc.	1531
Trico Corporation	1747
Trinity Coatings LLC	2715
Tri-Sen Systems Corporation	2249
TSS Turbine Specialty Services	2641
Turbine Pump and Compressor	2542
Turbomachinery International Publications	1829
Turbomachinery Laboratory	2022
TurboTides, Inc.	1749
Universal Plant Services	1647
VELO3D	1422
Vibration Institute	1620
ViewTech Borescopes	2929
Voith US Inc. (VTI)	2703
Vortex Pipe Systems	2053
WEG	2151
Wood	2317
Woodward	2311
Xtend Packaging, Inc.	2440
Zahroof Valves, Inc.	2804
Zenith Equipment Services, Inc	1536

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EXHIBITOR DESCRIPTIONS

A

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2327

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PH: 484-718-3703 | FX: 610-380-0278
www.aerzen.com/en-us

AERZEN is a family-owned private company that was founded in 1864 in Aerzen, Germany. AERZEN manufactured the first European positive displacement blower in 1868 and has been manufacturing screw compressors since 1943. In 1978, we designed and manufactured the world's largest positive displacement blower and have since built over 150 of that type. In 1984, AERZEN built the world's largest screw compressor. AERZEN was one of the first ISO 9001 certified companies in the world and has maintained that certification since 1990.

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1623

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www.aikoku.co.jp

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2421

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1435

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Alta Solutions is an innovative producer of Machinery Protection and Condition Monitoring, Combustion Dynamics, Transient Capture/Diagnostics, and Modal Analysis systems. Alta's products are optimized for monitoring and analyzing a variety of rotating machinery; steam and gas turbines, motors, generators, gearboxes, compressors, pumps, fans, blowers, and structures or piping vibration. With over 900 systems installed worldwide, Alta equipment has field proven reliability for Power Generation, Refining, Chemical Production, Steel and Aluminum Mills, Product Development, Research, and Production QC applications. Innovative features, accuracy, performance, and superior support allow customers to trust Alta Solutions for critical machinery health monitoring, protection, and analysis.

EXHIBITOR DESCRIPTIONS

ALTRA INDUSTRIAL MOTION

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1926

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1420

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PH: 719-686-1000
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ARIEL CORPORATION

2505

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www.arielcorp.com



Ariel is the largest manufacturer of reciprocating gas compressors in the world. Since 1966 Ariel's application-based engineering is designed to help our customers plan for the future and growth utilizing natural gas across the globe. Ariel has made a commitment with state-of-the-art technology in our manufacturing facilities, providing training to our employees and industry technicians, and, maintaining our reputation of safe, rugged, long-lasting equipment to meet demands. Ariel compressors are designed, manufactured, and packaged to exceed expectations. We lead the world in the development of modern compression technology with non-cooled cylinders, high-speed, driver-rated design and market-driven innovation.

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1741

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1828

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1634

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Atlas Copco Gas and Process is a division within the Atlas Copco Group's Compressor Technique business area. It designs, develops, manufactures and maintains turbo compressors, positive displacement compressors, and expansion turbines. In addition, Gas and Process offers a matching range of aftermarket products. The Division's solutions are used in oil and gas and chemical/petrochemical processes, power generation, renewables, and the industrial-gases sector. The divisional headquarters is located in Cologne, Germany, and the production centers are in the United States, China, and India.

AXIS MECHANICAL GROUP

1851

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www.axismechgrp.com

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B

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www.bakerhughes.com/bently-nevada



2835

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BK VIBRO AMERICA

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www.bkvibro.com

2347

Brüel & Kjær Vibro is the leading worldwide independent supplier of condition monitoring solutions for rotating machinery. The comprehensive product range comprises vibration sensors (acceleration, velocity and displacement), vibration monitors, handhelds and rack-based plant-wide integrated monitoring solutions.

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BOULDEN COMPANY

1720

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PH: 610-825-1515 | FX: 610-825-5544
www.bouldencompany.com

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BUFFALO PUMPS

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2119

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C

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Camfil Power Systems is a global leader in clean air solutions for turbomachinery. We manufacture high quality filters and auxiliary equipment for gas turbines and turbomachinery equipment used for power generation and oil & gas applications. Our complete solutions include air inlet, exhaust, noise reducing systems and ventilation as well as dampers and diverters; retrofit services, filter upgrade and spare parts. By offering the right solution for your specific environment, we optimize the process, resulting in lower operating costs, improved efficiency and lower environmental impact.

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1436

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www.celerosft.com

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CEROBEAR GMBH

1942

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www.cerobear.com

CEROBEAR is a specialized manufacturer of high performance hybrid and all-ceramic bearings with highly customized solutions for the turbo machinery, fluid machinery, oil and gas, aerospace and race car market. Its major product families include hybrid and all-ceramic ball and roller bearings of all types as well as needle and thin section bearings made from high performance ceramics and steels. CEROBEAR's core capabilities include an extensive heritage of hybrid and all-ceramic bearing design, fast and flexible high precision production of steel and ceramic rollers and rings, and a continuous drive for innovation of design, materials, and manufacturing methods.

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2926

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1846

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2243

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COBEY

1727

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PH: 716-362-9550
www.cobey.com

Cobey designs and manufactures modular piping packages and auxiliary equipment for the petrochemical, energy, oil & gas, and air separation industries. Engineered products such as lube oil consoles, dry gas seal panels, rundown tanks and rotating equipment packages are custom designed in accordance with customer specifications and applicable ISO/API standards.

COMPRESSOR & TURBINE SERVICES, LLC 2927

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www.compressorandturbineservices.com

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CONCEPTS NREC

1834

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CONNECTION TECHNOLOGY CENTER

2803

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2643

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2928

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PH: 289-288-4776
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Part of the Atlas Copco Gas and Process Division, CPC Pumps International uses its global sales and service capabilities to provide fast and professional support for our customers' hydrocarbon pump needs.

CRAFT PATTERN & MOLD INC.

1122

60 3rd St South
Montrose, MN 55363 USA
PH: 763-675-3169
www.craftpattern.com

Craft Pattern is a leader in rapid prototype manufacturing of metal and plastic parts. Craft specializes in quick turn prototype castings, pouring ferrous and non-ferrous metals in their onsite foundries. Craft has recently added its own 3D sand printer an ExOne S-Max to aide in accelerating their lead times from weeks down to days. Craft also has 3, 4 and 5 axis machining capabilities on over 23 CNC's as well as 3 CMM's. Craft Pattern would love to help you with any of your prototyping needs. Craft prides themselves in their commitment to quality craftsmanship and short lead times.

EXHIBITOR DESCRIPTIONS

CRYOSTAR

2044

2 rue de l'industrie ZI BP48
Hesingue, Hesingue, 68220 FRANCE
PH: 33-038-970-2727 | FX: 33-038-970-2777
www.cryostar.com

Cryostar supplies Turbo-Expanders for natural gas processing, PDH plants, ethylene and fertilizer plants. Particularly robust, reliable and highly efficient, they are built to the latest standards such as API 617. Cryostar provides also Process Pumps and Turbo-Expanders for industrial gas applications, offering increased reliability and product life, operational safety, ease of installation and reduced maintenance costs. Cryostar's wide range of Turbo-Expanders is used for all types of gases, with a choice of brakes adapted to every process (ASU, NLU, and N2 generators). Four Cryostar USA locations : Houston (TX), Whittier (CA), Bethlehem (PA) and Aurora (IL) for sales, after sales, maintenance and production capabilities.

CTS, INC.

1501

4303 South Drive
Houston, TX 77053 USA
PH: 281-910-5007
www.cts-inc.net

CTS is a thermal spray company that provides coatings for wear and erosion reduction, corrosion protection, thermal barrier and di-electric properties. Coatings include: HVOF (Tungsten Carbide, Chrome Carbide, Stellite), Plasma Spray (Chrome Oxide, Aluminum Oxide, TBC Coatings), and Wire Arc Spray (Stainless Steel, Inconel, Nickel Aluminum). We also offer machining capabilities, ID/OD grinding and shot peening. We are ISO9001 and AS9100 certified.

CUSTOM ENGINEERING COMPANY

2817

2800 McClelland Ave.
Erie, PA 16514 USA
PH: 814-898-2800 | FX: 814-899-2729
www.customeng.com

Custom Engineering is a fully integrated, ISO certified contract manufacturing and machining company. We specialize in large scale contract fabrication and manufacturing components up to 160,000 lbs. Our facility located in Erie, PA, has over 200,000 square feet of manufacturing space and is ideally suited to produce both short and long run components. Custom is a leading supplier of heavy fabrication, machining, and assembly of large weldments to a wide variety of world-class companies across various industries. Custom specializes in build large baseplates/soleplates. www.customeng.com

D

D&S ENGINEERED PRODUCTS

2624

1231 County St.
Attleboro, MA 02703 USA
PH: 508-431-1228 | FX: 508-222-6555
www.d-sep.com

D&S Engineered Products designs and manufactures engineered products such as fluid film (hydrodynamic) journal and thrust bearings, and squeeze film dampers for the industrial, oil and gas, and energy sectors worldwide. We also provide vacuum brazing and hard facing service. All the product are designed and built to suit a particular application. Our engineering staff evaluates each application and offers the best product using our more than 30 years of industry experience. Product is fabricated with quality in our US based, ISO 9001 certified manufacturing facility in a timely and cost-effective manner.

DELTA FLUID SYSTEMS, INC.

1321

358 Dewitt Rd. L8E 2T2
Stoney Creek, ON CANADA
PH: 905-664-4333
www.deltafluidsystems.com

Designers and manufacturers of API 682 Mechanical Seal Support Systems (Seal Flush Plans 21/23, 32, 52, 53A, 53B, 54, 55, 65A, 65B, 72, 74, 75, 76) and custom pressure vessels, and API 614 Lube Oil Systems. ASME SECTION VIII DIV 1 / ASME U STAMP certified, ISO 9001:2015 registered.

DICKOW PUMP COMPANY, INC.

1300

1738 Sands Place, #200
Marietta, GA 30067 USA
PH: 770-952-7903
www.dickow.com

Dickow Pump Company has manufactured centrifugal pumps for more than 115 years, always with an emphasis on precision, longevity in service and hydraulic efficiency. Today we offer the broadest and most technologically advanced range of magnetic drive seal-less pumps. Dickow Pump Company is a major supplier of pumps for the process industries including the following engineered products. NMB: Close coupled seal-less process pumps. NCR: API 610 PRM: API 685 NMX: Seal-less high temperature pumps especially designed for handling heat transfer fluids with no cooling water required. SCM: Seal-less side channel pumps for low capacities and high differential heads. HZM: Seal-less

EXHIBITOR DESCRIPTIONS

DIESEL & GAS TURBINE WORLDWIDE

2134

20855 Watertown Road, Suite 220
Waukesha, WI 53186-1873 USA
PH: 262-754-4100
FX: 262-754-4175
www.diesलगasturbine.com

Diesel & Gas Turbine Worldwide (www.diesलगasturbine.com) is a global website, e-newsletter and twice-a-year magazine covering large reciprocating and rotating engine products and technologies used in land-based and offshore power generation and oil & gas, as well as marine propulsion. The e-newsletter reaches more than 35,000 recipients weekly. COMPRESSORTECH2 magazine is published 10 times a year and covers natural gas and process gas machinery and the compressors, drivers and controls used in offshore and land-based gas compression applications. Diesel Progress is a monthly magazine covering engine-powered technology and applications in the oil & gas, marine propulsion, power generation and other markets.

DRAKE CONTROLS

2541

8731 Fallbrook Drive
Houston, TX 77064 USA
PH: 713-996-0190 | FX: 713-996-0190
www.drakecontrols.com

Drake Controls is one of Woodward's largest channel partners globally. Our company is a Woodward Recognized Turbine Retrofitter as well as the Authorized Woodward Sales & Service Center for Texas, California, Oklahoma, Kansas, New Mexico & Nevada. In addition to our U.S. operations Drake Controls is also responsible for Woodward products and services within the country of Mexico as well as Brazil with our JV affiliate DrakePM. Drake Controls also represents Dynalco Controls throughout our territories. Our goal at Drake Controls is to provide quality products, solutions and technical services to the Turbomachinery industry and our customers.

E+A**1522**

Bachstrasse 10
 Möhlin, 4313 Aargau SWITZERLAND
 PH: 925-685-0227
www.eandausa.com

e+a makes rotors and stators that OEM's use to build motors and generators for embedded high-speed, high-power turbo-machinery applications including: machine tool spindles, micro-turbine generators, waste-water & fuel cell blowers, direct drive gearbox replacements, compressors & turbochargers, chillers, energy storage systems, HVAC compressors, LNG & LH2 pumps, automotive traction motors and range extenders, concrete cutting, aircraft generators & APU's, flywheel energy storage, etc. e+a rotor/stator sets are Induction and Permanent Magnet motors and generators ranging from a few KW at 500K+ RPM through 1.6MW at 25K RPM. e+a offers both Low Voltage (<1000V) and Medium Voltage devices (3.3kV, 6.6kV..).

EAGLEBURGMANN INDUSTRIES LP**2427**

10035 Brookriver Drive
 Wolfkratshausen 82515 Bayern GERMANY
 PH: 713-485-7594
www.eagleburgmann.us

Sealing technology by EagleBurgmann is used worldwide in oil and gas industries, refineries, the petrochemical, chemical, and pharmaceutical industries, food processing, energy, water, mining, paper, aerospace, and other industries. Close to 6,000 employees provide their ideas, solutions, and commitment so that customers can rely on our sealing technology. What makes us stand out is our excellent quality, great innovative capacity, and an extensive product portfolio for nearly all industrial processes and fields of application. Our product portfolio includes everything from mechanical seals and seal supply systems to magnetic couplings, carbon floating ring seals, expansion joints, gaskets and packings.

EASTERN ALLOY**2420**

1138 Meldon Ave.
 Donora, PA 15033 USA
 PH: 724-379-5776 | FX: 724-379-3540
www.easternalloy.com

Eastern Alloy Inc. custom designs and manufactures nitrogen filled shipping and long term storage containers. The protective containers are designed to be stored horizontal and vertical. Equipment shipped and stored include; Rotors, Bundles, Expanders, Gear Sets, Armatures, Couplings, Gear Boxes, Seals, Bearings, Pumps and many other components.

EXHIBITOR DESCRIPTIONS

ECOTECH & CP PUMPEN

2919

30466 SGT E. I Boots Thomas Dr.
Spanish Fort, AL 36527 USA
PH: 251-478-5855
www.eco-technical.com

Industrial Solutions provider specializing in pumps, valves, mechanical seals and automatic lubrication.

ELLIOTT GROUP

901 North Fourth Street
Jeannette, PA 15644 USA
PH: 724-527-2811
www.elliott-turbo.com



2125

Elliott Group designs, manufactures, and services compressors, steam turbines, lubrication and seal systems, and cryogenic pumps and expanders for oil & gas, LNG, refining, petrochemicals, and power applications. Elliott's global service network provides installation, maintenance, repair, overhauls, and rerate services for Elliott and non-Elliott equipment. Elliott employs 2500 people in 32 global locations. Elliott Group is a subsidiary of Ebara Corporation, Tokyo, Japan.

EMERSON

2725

835 Innovation Drive
Knoxville, TN 37932 USA
PH: 865-675-2400
www.emerson.com/ams

Emerson's comprehensive line of condition monitoring technologies help improve reliability in your facility and can contribute to your plant's digital transformation. Technologies include protection plus prediction online system, wireless transmitters, and route-based vibration data collectors/analyzers. Data is integrated to AMS Machine Works and connects to enterprise platforms for expanded visibility, collaboration, and closed loop reliability for critical assets.

EMORY INDUSTRIAL SERVICES

2751

1423 E Richey Rd
Houston, TX 77073 USA
PH: 346-339-6980
www.emoryindustrial.com

We are an industrial cleaning company that specializes in Dry ice cleaning.

EMPOWERING PUMPS & EQUIPMENT

1134

P.O. Box 2313
Tuscaloosa, AL 35403 USA
PH: 205-614-8601
www.empoweringpumps.com



Empowering Pumps & Equipment is the information and connection hub for the pump and related equipment industries. The mission is to Connect, Inform, and Educate the industry through publishing The Right Content, To the Right Audience, At the Right Time! As an Empowering Brands property, we aim to be strategic business partners to our clients, creating tailored programs to support our clients' marketing campaigns and providing flexible and responsive service. With broad industry knowledge and a respected brand, Empowering Pumps & Equipment provides publishing opportunities, content development, social media marketing, strategy, and execution options to empower our clients to cost-effectively reach and engage with a diverse audience.

ENERGY CONTROL TECHNOLOGIES, INC.

2941

P.O. Box 681032
Houston, TX 77268 USA
PH: 281-309-8164 | FX: 515-223-1638
www.ectpac.com

Energy Control Technologies (ECT) delivers control solutions for turbocompressors, steam turbines, gas turbines, turboexpanders, screw compressors, and reciprocating compressors. Our technology uses Rockwell Automation Allen-Bradley ControlLogix and CompactLogix, Siemens or Honeywell hardware platforms in the Oil & Gas, Industrial/Manufacturing, and Biofuels markets including full duplex and SIL 2 systems. ECT solutions increase energy efficiency and production while improving machine protection. Solutions include: surge control, performance control, quench, loadsharing, steam turbine speed and extraction control, overspeed trip systems, gas turbine fuel control and sequencing, turboexpander control, logic, vibration protection, plant air network control, and simulation services.

ENGINEERING DYNAMICS, INC.

1845

16117 University Oak
San Antonio, TX 78249 USA
PH: 210-492-9100 | FX: 210-492-9586
www.engdyn.com



Engineering Dynamics Inc. is an independent engineering firm serving industry with the expert technical support to solve and prevent dynamics problems. Founded in 1982, EDI has become a recognized leader in providing engineering expertise in the petrochemical, refinery, power generating & gas processing industries. Wide variety of capabilities & advanced instrumentation.

EXHIBITOR DESCRIPTIONS

EQUITY ENGINEERING GROUP, THE

1740

20600 Chagrin Blvd., Suite 1200
Shaker Hts, OH 44122 USA
PH: 216-283-9519
www.e2g.com

E2G|The Equity Engineering Group, Inc. develops fixed equipment technologies that keep oil refineries and petrochemical plants safe and operating at top capacity. Our focus is on aging infrastructure service and support – we help clients improve profitability with consulting strategies and software tools that manage risk and control inspection costs throughout the life-cycle of a plant's equipment.

ETHOSENERGY FIELD SERVICE

2525

3444 Pasadena Freeway
Pasadena, TX 77581 USA
PH: 713-472-3444

ETU I+D SA DE CV

1814

Cuauhtemoc Num 3
San Pedrito Penuelas 76148 MEXICO
PH: (+)524422206895
www.etu.mx

We manufacture and repair parts of centrifugal compressors and steam turbines, as well as develop the integral rehabilitation of Turbomachinery, commissioning and monitoring in the field.

EURA INVESTMENT CANADA LTD.

2646

7030 Woodbine Ave. Unit 500
Markham ON L3R6G2 Ontario CANADA
PH: 647-512-7958
en.euradrives.com

VFD, HMI, Servo, PLC, motor, drive, control, special pump software and control

F.W. GARTNER THERMAL SPRAYING / CURTISS-WRIGHT

2601

25 Southbelt Industrial Drive
Houston, TX 77047 USA
PH: 713-225-0010 | FX: 713-229-9841
www.fwgts.com

FW Gartner (a business unit of Curtiss Wright Surface Technologies) is an ISO 9001 (2015) qualified provider of a broad range of surface technologies utilized for the protection and reclamation of critical components, and a fixture in the Houston area since 1923. By combining FW Gartner's Thermal Spray, Laser/PTA cladding, comprehensive machining and grinding shop, full metallographic lab, staff metallurgist and on-site third party QC inspection, FW Gartner is ready to partner with you in delivering the innovative solutions you need and the company's many customers, across a broad range of industries, have come to expect.

FIELD INDUSTRIES

1843

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Houston, TX 77087 USA
PH: 832-736-1839 | FX: 1-888-505-1775
www.fieldindustries.com



Field Industries improves quality of life by simplifying supply chain. We distribute steel and alloy flanges, fittings, pipe, and long weld necks. Our knowledgeable staff, strategic supply agreements, detailed quality and documentation processes, consolidation capabilities, and in-house logistics result in us providing a quick, competitively priced, and simplified solution tailored to our customers' unique supply chain processes.

FLENDER-GRAFFENSTADEN

2221

115 Technology Drive, A201
Trumbull, CT 06611 USA
PH: 203-268-5961
www.flender-graff.com

Flender-Graffenstaden has acquired the know-how and the experience to be a leader in the field of high speed gears. FG Gears are used in all processes in power plants, refineries, offshore and onshore oil and gas installations, petrochemical and industrial process plants. FG provides turbo parallel shafts and integral gear units with centerline distances ranging from 150 to 1500 mm. Designed to meet specific customer needs, our products can reach powers up to 110 MW. With Local support for Application Engineering and Field service support for startup and commissioning through FGGS Corp.

EXHIBITOR DESCRIPTIONS

FLEXASEAL ENGINEERED SEALS AND SYSTEMS, LLC

1301

291 Hurricane Lane
Williston, VT 05495 USA
PH: 802-857-4500
www.flexaseal.com

Flex-A-Seal, Inc. started in December 1983. In 2020, Flex-A-Seal and Momentum Engineered Systems merged creating Flexaseal Engineered Seals and Systems, LLC. Flexaseal has a worldwide presence with sales agents and distributors in over 50 countries. Flexaseal core commitment is to be at the forefront of the industry's technical advances. Our facilities contain state of the art bellows welding capabilities, CNC machining centers, quality control standards, and extensive inventory systems. We also offer seal repair capabilities to refurbish not only our seals, but our competitors' as well. Our mission is to supply our customers with products of the highest quality.

FLEXELEMENT

2316

8889 West Monroe Road
Houston, TX 77061 USA
PH: 713-910-3839 | FX: 713-910-0223
www.flexelement.com

Since its beginning in 1991, FlexElement has built a reputation for outstanding quality and customer service as experts in the technical design, manufacturing, and repair of power transmission couplings for critical turbomachinery. We are an engineering, manufacturing and service company that provides API 671-compliant high performance power transmission couplings and related services for critical turbomachinery worldwide. FlexElement offers industry-proven flexible disc, dry coupling designs that maximize machine uptime, providing years of maintenance-free service and reliability. Our coupling re-certification program offers timely and cost-effective refurbishment to our couplings as well as other makes of coupling. The refurbishment includes cleaning, visual and dimensional inspection, non-destructive examination, repairs and dynamic balancing in accordance with API 671. At FlexElement, rapid response and superior service are the standard.

FLOWSERVE CORPORATION

1611

2100 Factory St
Kalamazoo, MI 49001 USA
PH: 269-226-3960
www.flowserve.com

Flowserve Corporation is one of the world's leading providers of fluid motion and control products and services. Operating in more than 55 countries, the company produces a wide variety of engineered and industrial pumps, seals, valves, and specialty equipment. Flowserve also provides a broad range of consultative, engineering and technical support services. Primary markets served include: oil and gas; power generation; chemical; water resources; mining and ore processing; and general industries. More information about Flowserve can be obtained by visiting the company's website at www.flowserve.com.

FUSION, INC.

1600

6911 Fulton
Houston, TX 77022 USA
PH: 713-691-6547 | FX: 713-699-1003
www.fusionhouston.com

Fusion, Inc. is a coating & grinding facility offering HVOF, plasma and electric twin arc wire coating capabilities and is known for quick-turn repairs on rotating and reciprocating components such as turbine rotors, shafts, piston rods, impellers and crankshafts to name a few. Fusion has also become recognized for the application and finish polishing of carbide on downhole mud motor rotors and drill cones.

G

GAS & AIR SYSTEMS, INC.

2816

1304 Whitaker Street
Hellertown, PA 18055 USA
PH: 610-838-9625 | FX: 610-838-9650
www.gasair.net

Gas & Air Systems, Inc. (GAS) is the factory authorized compressor packager and distributor of Howden BC (formerly Burton Corblin) Process Gas Compressors in North America. GAS provides application and package engineering, design and fabrication. Packages incorporate Howden BC Process Piston Compressors, Metal Diaphragm Compressors, and Periflow Centrifugal Compressors. In addition, GAS maintains a large inventory of genuine, factory approved spare parts for immediate delivery, and provides qualified Field Service, troubleshooting assistance, reapplication and overhaul service.

GAS COMPRESSION MAGAZINE

2724

15814 Champion Forest Drive, Ste. 409
Houston, TX 77379 USA
PH: 832-271-7300
www.gascompressionmagazine.com

Gas Compression Magazine provides in-depth coverage of the products, systems, technologies, and news that affect the global gas compression industry. Upstream, midstream, and downstream, Gas Compression Magazine is your source for gas compression news and information. Published monthly, Gas Compression Magazine is delivered to the people who manufacture, maintain, purchase, package, and teach gas compression products and systems. Offered in print and digital formats, readers can choose their preferred delivery method (or both!). Free to subscribe and free to renew, sign up today at www.gascompressionmagazine.com.

EXHIBITOR DESCRIPTIONS

GBS CASTING

1500

777 XiFu Road, XiFu Town, Chengyang District
Qingdao RI 266109 Shandong CHINA
PH: 401-525-8106
gbscasting.com

GBS casting is THE choice for all of your OEM technical cast and ductile iron parts. We manufacture the highest quality cast and ductile iron parts up to 2.5 tons and in varying quantities. We take complete control of pattern and fixture design and manufacture so we control lead times. We serve the engine, pump, valve, alternator, and printing press industries and will add to that list. ISO 9001, TS 16949.

GEA NORTH AMERICA

2741

3475 Board Road
York, PA 17406 USA
PH: 717-767-6411
www.gea.com

GEA's proven, world-class process refrigeration and gas compression solutions include screw compressor packages, chiller systems, condensing expertise also extends to disk-stack and decanter centrifuges, as well as gas jet compressor systems. GEA prioritizes value and functionality throughout the lifecycle of its products and service support includes parts as well as predictive & preventive maintenance. Talk with us to learn why industry-leading companies worldwide choose GEA, and how we can meet your process-critical requirements. Booth #1600, GEA – engineering for a better world.

GOODRICH INDUSTRIAL COUPLINGS

2135

104 Otis St.
Rome, NY 13441 USA
PH: 315-338-3261 | FX: 315-838-1476
www.goodrichcouplings.com

Goodrich Industrial Couplings meet the most demanding industrial gas turbine coupling requirements. Located in Upstate New York, we design, manufacture, and repair diaphragm couplings and components necessary to ensure the highest levels of operation and ensure reduced downtime. Goodrich's power transmission diaphragm couplings have set the standard for quality, reliability and performance in numerous OEM and retrofit applications meeting API-671 requirements.

GRAPHALLOY

1050 Nepperhan Ave.
Yonkers, NY 10703 USA
PH: 914-968-8400
www.graphalloy.com



1117

GRAPHALLOY, a graphite/metal alloy from Graphite Metallizing Corporation, is a uniform, solid, self-lubricating bushing and bearing material for pumps that permits dry starts, survives frequent loss of suction, reduces vibration and extends pump life for continuous service. GRAPHALLOY's unique non-galling and self-lubricating properties enable a pump to handle fluids and survive upsets that would seize a metal fitted pump. Graphalloy is normally supplied in finished form and can be installed without additional machining. Graphite Metallizing has over 100 years of experience solving the toughest bearing problems. Most of our products are custom designed to unique requirements of the specific application.

GREENE TWEED

1684 South Broad Street
Lansdale, PA 19443 USA
PH: 215-256-9521 | FX: 215-256-0189
www.gtweed.com

2516

Greene Tweed, a leading global manufacturer of high-performance materials and products, leverages extensive engineering, design, and manufacturing expertise to provide solutions that provide exceptional performance in the challenging environments of the energy market. Combining more than 150 years of technical capabilities and commercial knowledge in a variety of markets, Greene Tweed has been at the forefront of innovation, and is proud to deliver leading products, including Chemraz®, Fusion®, Arlon®, WR®, AR®, and Xycomp®, which are sold worldwide. For additional information, call +1.215.256.9521, or visit our website at www.gtweed.com.

EXHIBITOR DESCRIPTIONS

GULF COAST BEARING & SEALING, LLC

1720

8730 Meldrum Lane
Houston, TX 77075 USA
PH: 832-399-4227
www.bouldencompany.com

Gulf Coast Bearing & Seal ("GCBS") specializes in the design and manufacture of drop-in replacement journal and thrust bearings for compressors, turbines, pumps, and motors. Custom-engineered bearings are designed to reduce bearing temperatures and wear, increase load capacity, and extend bearing life. For centrifugal compressors, GCBS designs and manufactures labyrinth seals-both stationary labyrinths and abradable designs. If you currently have stationary aluminum labyrinth seals, GCBS provides upgrades to composite labyrinth seals which can run with tighter clearances, increasing compressor efficiency and throughput. In a hurry? GCBS repairs bearings and seals on a short lead-time basis.

H

H & M PLATING COMPANY, INC.

2318

6804 La Paseo Street
Houston, TX 77087 USA
PH: 713-643-6516
www.hmplating.com

Reconditioning and protective coating processes utilizing electroplated hard chrome, sulfamate nickel, thermal spray, cylindrical (OD & ID) grinding and honing, phosphate coating, welding overlay and media blasting.

HAMMELMANN CORPORATION

1323

436 Southpointe Drive
Miamisburg, OH 45342 USA
PH: 937-859-8777 | FX: 937-859-9188
www.hammelmann.com

Hammelmann manufactures extremely compact 3, 5 and 7 cylinder pumps for injection service with input capabilities up to 1500HP. The latest variation of this pump series is the Zero Emission Pump where the pumped fluid is hermetically sealed within the pump, preventing leakage to atmosphere during operation. Hammelmann pumps produce maximum performance from a minimal footprint which is the result of combining a compact integral speed reduction gear end with the concept of a vertical configuration. The vertical configuration channels oscillating forces directly downwards into the base structure. Unwanted lateral oscillations as produced by horizontal pumps do not occur.

HANKUK AIRRO

1336

281, Techno 2-ro, Yuseong-gu,
Daejeon 34026 281, Techno 2-ro, Yuseong SOUTH KOREA
PH: (+)8201042018596

HANWHA POWER SYSTEMS

2547

1204, Chanwon-daero, Seongsan-gu
Changwon-si 51542 Gyeongsangnam-do SOUTH KOREA
PH: 281-599-3377
www.hanwhapowersystems.com

Hanwha Power Systems (HPS) is expanding the business globally, pursuing world-leading technology and commitment to quality and envisioning a top-tier power & energy solution provider. Over the past 25 years, HPS has delivered more than 6,000 units of turbo compressors worldwide. Based in South Korea, we have overseas offices in China, Italy, Russia, UAE, Vietnam and USA. Our product offerings are mainly turbo compressors and power generation solution, including the supercritical CO2 power system.

HAYWARD TYLER

1114

480 Roosevelt Highway
Colchester, VT 05446 USA
PH: 802-655-4444
www.haywardtyler.com

Hayward Tyler is a small business established in 1976 and located in Colchester, VT. We are a full service manufacturing company specializing in engineered pump and motor solutions for ASME and other specialist code applications worldwide. We offer a wide range of engineering and manufacturing capabilities to provide OEM and reverse engineered products.

HEBEI METALS & MINERALS CORP. LTD

1034

NO.448 West Hepingroad
Shijiazhuang 50071 Hebei CHINA
PH: (+)8631187051240 | FX: (+)8631187049231
www.hebcasting.com

Established in 1974, Hebei Metals & Minerals has nearly 50years experience in manufacturing casting and machining products for pumps and valves used for irrigation, minning, marrine, chemical industry,etc. The material of our products can be grey iron, ductile iron, carbon steel, stainless steel, duplex steel, aluminum. Please don't hesitate to contact us. Our high quality products and on time delivery will benefit your supply chain a lot!

EXHIBITOR DESCRIPTIONS

HENDERSON ENGINEERING CO., INC.

2906

95 N. Main St.
Sandwich, IL 60548 USA
PH: 815-786-9471
www.saharahenderson.com

Sahara Air Products, a Division of Henderson Engineering Co., Inc., founded in 1957 by Joe Henderson, provides engineered solutions for air system problems. We thoroughly examine the unique requirements of each customer and develop the most economical and reliable system solution for that application. As the third generation of Hendersons continue the tradition of product excellence and customer service, the heart of the company has always been engineering; finding novel solutions to our customers' unique applications. Henderson has the expertise to review your plant air system and design the optimum engineered solution.

HENKEL LOCTITE CORPORATION

1116

One Henkel Way
Rocky Hill, CT 06067 USA
PH: 860-571-5100
www.na.henkel-adhesives.com

Loctite technologies can be used in all stages of pump maintenance to prevent common failures, both major and minor, allow for the recycling of parts to avoid scrap replacement costs, assist in disassembly, and help ensure reliability and a consistent running condition. In addition to the trusted Loctite brand products, Henkel also offers maintenance training workshops. These in-plant workshops are hands-on and teach maintenance technicians how to solve the most common maintenance problems and prevent future breakdowns.

HERMETIC PUMPS INC.

1427

18847 Intercontinental Crossing Drive
Houston, TX 77033 USA
PH: 281-443-0905 | FX: 281-443-0960
www.hermetic-pumpen.com/en

Hermetic Pumps, Inc. is a world leader in sealless pumps including canned motor, magnetic drive, liquid ring vacuum, positive displacement and submersibles. All canned motor pumps offer the electronic monitoring system MAP that checks the rotor position and detects upset conditions. New and standard for all pumps is the rotation protection ROM! Canned motor pumps are available up to 1000 HP, operating pressures up to 18000psig and temperatures from -200F to 850 degrees Fahrenheit. The company is a division of Hermetic Pumpen GmbH Germany.

HILCO

2520

100 W. Fourth Street
Elmira, NY 14901 USA
PH: 607-733-7121
www.hilliardcorp.com



HILCO, a division of The Hilliard Corporation, has been engineering and manufacturing filtration systems for Turbo-Machinery Equipment since 1925. HILCO filtration cartridges have superior dirt holding capacity and have continually out performed its competitor's cartridges. Some of the company's systems include Oil Mist Eliminators with an efficiency rating of 99.97% at .03 micron, Lube Oil Conditioners, Duplex/Simplex Filters, Transfer Valves with zero leak pads, Process Equipment, Patented Dry Resin Ion Exchange, Varnish Prevention/Removal equipment as well as Engine Starting systems. HILCO welcomes your most challenging filtration needs.

HOERBIGER COMPRESSION TECHNOLOGY

2211

3350 Gateway Drive
Pompano Beach, FL 33069 USA
PH: 954-974-5700 | FX: 954-974-0964
www.hoerbiger.com

HOERBIGER Compression Technology provides a wide range of reciprocating and rotating equipment services to the refining, chemical, gas transmission, power generation and steel industries. Services from its La Porte, Texas campus, reciprocating and centrifugal compressors. HOERBIGER manufactures compressor components at its plants in Pompano Beach FL setting the standards with products using the latest technology offering reliability and efficiency.

HOOSIER PATTERN INC

1226

906 N. 10th Street
Decatur, IN 46733 USA
PH: 260-706-4144 | FX: 260-724-9433
www.hoosierpattern.com

Known for our quality of workmanship and commitment to "On Time Delivery", HPI has gained recognition as a premier pattern shop. With some of the latest tools in technology HPI is able to provide you with the best quality, pricing and timing. A highly experienced staff will assist your company with "out of the box" concepts for every need. Hoosier encourages constant research for new products and procedures to stay profitable and further capabilities. Additions of 3D sand printers and an FDM/ABS plastic printer truly keep HPI on the cutting edge of technology.

EXHIBITOR DESCRIPTIONS

HOUSTON DYNAMIC SERVICE

2035

8150 Lawndale
Houston, TX 77012 USA
PH: 713-928-6200 | FX: 713-928-2903
www.houstondynamic.com

Houston Dynamic Service, Inc, is a privately held corporation and one of the largest independent facilities in the region. HDS, has been providing service for over 37 years of the repair of rotating equipment. This includes all types and manufacturers of pumps, compressors, blowers, gearboxes, centrifuges and turbines. HDS can also assist with field service. In addition, HDS is the largest independent provider of seal strip for all type of applications. The HDS complex is located in the Houston Ship Channel area and provides services to the petrochemical, refining, power generation, mining and off-shore industries.

HOWDEN

1327

900 West Mount Street
Connersville, IN 47331 USA
PH: 800-557-6687 | FX: 765-827-9317
www.howden.com

Howden is a global leader in mission critical air and gas handling technology. Our team designs, builds, installs and services highly engineered fans, compressors, heat exchangers and turbines. We enable our customers' vital processes while developing world class, durable technology for optimal performance in a safe, sustainable and cost-effective future.

HSI

2807

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Frisco, TX 75034 USA
PH: 704-815-7906
www.hsi.com

HSI offers workforce training and development programs for industrial organizations. With an in-house development team, extensive media library, and state-of-the art technology including 3D animation, we provide a full menu of services: cutting edge eLearning, instructor-led training, training aids, workshops, job task analysis, employee progression, and train-the-trainer programs. HSI focuses on technical training for the equipment you use, including centrifugal pumps, positive displacement pumps, reciprocating positive displacement pumps and more. HSI also provides safety training, including qualified electric worker training to help you meet OSHA requirements.

HYDRAULIC INSTITUTE

1337

300 Interpace Parkway
Parsippany, NJ 07054 USA
PH: 973-267-9700 | FX: 973-267-9055
www.pumps.org

The Hydraulic Institute serves pump manufacturers, engineering consulting firms, and pump users worldwide by developing and delivering comprehensive industry standards; expanding knowledge by providing education and tools for the effective application, testing, installation, operation, maintenance, and performance optimization of pumps and pumping systems; and by serving as a forum for the exchange of industry information. HI established Pump Systems Matter as its educational annex in providing webinars and courses on the benefits to pump systems optimization and energy efficiency to improve bottom-line savings of end-user companies. For more information on HI, visit www.Pumps.org.

HYDRO INC.

1227

6320 Cunningham Road
Chicago, IL 60607 USA
PH: 713-937-9001
www.hydroinc.com

HydroTex Dynamics, part of Hydro's worldwide pump service organization, provides engineering solutions and value-added services to improve pump reliability, extend pump life and reduce overall life cycle costs. Hydro works hand-in-hand with pump users to optimize the performance and reliability of their pumping systems by evaluating and understanding root causes of pump degradation or failure and by providing unbiased engineering analysis, quality workmanship, pump performance testing, and responsive field service for improved plant operation. Visit Hydro's website www.hydroinc.com to learn more about our comprehensive pump services.

LOOKING FOR AN ACTIVITY?

Checkout the TPS Extra Events in the Introduction Section.

EXHIBITOR DESCRIPTIONS

HYDROCARBON PROCESSING

2048

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PH: 713-529-4301 | FX: 713-520-4433
www.hydrocarbonprocessing.com/

Hydrocarbon Processing provides cutting-edge technical and market information for the global refining, petrochemical and gas processing industries. Since 1922, Hydrocarbon Processing's in-depth technical articles, reference materials and data products have been utilized by engineers and management professionals throughout the world. As technological advances drive growth and innovation, Hydrocarbon Processing continues to be a trusted source of insight and analysis into global and regional industry trends and technological developments. For more information, visit HydrocarbonProcessing.com. Gas Processing & LNG covers the latest process technologies, equipment, operations, maintenance, regulations and market and environmental trends. For more information, visit GasProcessingNews.com.

IDEAL ELECTRIC COMPANY

1813

330 E. First Street
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PH: 409-522-3611
www.theidealelectric.com

Since 1903, IDEAL ELECTRIC COMPANY, formerly Hyundai Ideal, has become a globally recognized, leading supplier of high-power, specialty induction, synchronous, wound rotor and permanent magnet electric motors, generators, condensers, switchgear, power systems and controls up to 50 MVA. IDEAL machines are found in every application, are built to the highest specifications and to all standards and environments. Our Genuine IDEAL Re-manufacturing, Parts & Service, along with our heavy manufacturing and large testing capabilities, support our unyielding commitment to quality reflected in every component we supply and proven by thousands of machines operating globally. Protect your investment; always insist on genuine IDEAL.

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2435

800-A Beaty Street
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PH: 704-896-4000
www.ingersollRand.com

Ingersoll Rand is a global leader in compressed air and gas systems specializing in design, manufacture, optimization and asset management. With a specialty in supplying complete system solutions, Ingersoll Rand offers a broad technology portfolio that includes centrifugal, screw and reciprocating compressors. Knowledgeable company experts conduct full site assessments to understand the customer's operating processes and design the most reliable and efficient solution for each application. Drawing on more than a century of industry experience, Ingersoll Rand has a legacy of helping customers be more competitive within their industries - including those in the petrochemical, air separation, LNG, power generation and general manufacturing sectors.

INTERFACE INC.

1419

7418 East Helm Dr
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PH: 480-948-5555
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We design, manufacture, and guarantee the highest performance of sensors including our world class load cells, torque transducers, multi-axis sensors, instrumentation, systems and more. We are the preeminent supplier to global industry leaders in aerospace, automotive, medical, energy, infrastructure, industrial automation, and top test and measurement pros.

ISOMAG CORPORATION

1827

11871 Dunlay Avenue
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PH: 225-752-0926
www.isomag.com

Isomag is the technological leader in industrial bearing seal protection. All Isomag bearing seals utilize precision lapped flat face sealing technology to provide a liquid tight seal. By preventing oil contamination, Isomag seals maximize bearing life and improve MTBF. Isomag seals are compact one-piece cartridge designs that are easy to install and will replace most lip seals and labyrinth seals. Seals are available for pump power frames, steam turbines, electric motors, gearboxes, and many other applications. Available in sizes to fit all shaft diameters from 3/4 inch to 13 inch.

EXHIBITOR DESCRIPTIONS

ITT INDUSTRIAL PROCESS

2611

240 Fall Street
Seneca Falls, NY 13148 USA
PH: 315-568-2811
www.gouldspumps.com

ITT Industrial Process (IP) is a dynamic business expanding on a global scale. Headquartered in Seneca Falls, New York, IP offers a portfolio of world-leading brands in industrial pumps, valves and monitoring and control equipment, offshore water treatment systems, and plant optimization and efficiency systems, as well as aftermarket services and parts.

ITW

2825

30 Endicott Street
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PH: 978-777-1100
www.itwperformancepolymers.com

ITW Performance Polymers offers the renowned Chockfast grouting and chocking compounds. The pumpable Chockfast epoxy grout foundation systems and chocking compounds enhance rotating equipment reliability and improve mean time before failure. Chockfast solutions ensure precise and permanent alignment of all machinery and have an unmatched reputation for reliability with major gas pipelines, chemical, petrochemical and refining complexes, mining operations, and industrial construction operations worldwide.

J

JOHN CRANE

1835

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www.johncrane.com

With more than 5,800 employees around the globe, John Crane supplies and services the products used by process industries for mission-critical operations. Founded more than 100 years ago, we are a global leader in rotating equipment solutions, supplying engineered technologies and services to the Oil & Gas, Power Generation and Chemical industries. Our outstanding reputation for designing and engineering high-quality, durable, customized solutions is globally recognized. We partner with our customers and help them meet the latest environmental standards and keep their operations safe and controlled. Headquartered in Chicago, Illinois, we are part of Smiths Group Plc.



KAYDON RING & SEAL, INC.

2143

20 Industrial Dr.
Hanover, PA 17331 USA
PH: 717-633-4300
www.kaydonringandseal.com

Kaydon Ring & Seal manufactures main shaft seals for centrifugal and oil free screw compressors in hydrocarbon gas applications. The product line includes low leakage Mechanical Oil Seals, dry running Multi-Ring Circumferential seals, Dry Gas Seals, and Circumferential Barrier Seals. We are your lifecycle partner – optimizing initial seal selections and configurations, improving reliability of existing installations, and supporting service and repair needs over the life of your machinery installation.

KELM ENGINEERING, LLC

1618

13711 Banks View Ct.
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PH: 281-993-3717
www.kelmengineering.com

Kelm Engineering was formed in 1999. Its approach to solving equipment problems is to use a mixture of analytical modeling and field and/or shop testing to validate computer simulations and verify the effectiveness of solutions. Although the company is based in the Greater Houston area, Kelm's projects continue to be located around the nation and the globe.

KENNAMETAL

1340

525 William Penn Place, Suite 3300
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PH: 833-379-1506
www.kennametal.com

Kennametal® is a global supplier of solutions for wear, heat, and corrosion problems, a world-class manufacturer of components, and a service provider to a wide range of industries. Count on us for innovations that deliver productivity, reliability, and extended life in the harshest environments. We have a long history of helping our customers achieve success and a tradition of exceeding their expectations. By matching our advanced material solutions and technologies to your applications, we can help you solve your biggest wear problems, avoid costly downtime and catastrophic failures, and achieve significant savings.

EXHIBITOR DESCRIPTIONS

KINGSBURY, INC.

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www.kingsbury.com

Kingsbury, in business since 1912, is the first and leading manufacturer of fluid-film thrust and journal bearings. Our products are used in a wide variety of turbo machinery, including steam and gas turbines, compressors, gearboxes and pumps, with shaft sizes ranging from 25 to 1400 mm, and sliding velocities up to 130 m/sec. Please visit www.kingsbury.com for more details.

KISTLER INSTRUMENT CORP

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PH: 248-621-3571
www.kistler.com

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this owner-managed Swiss corporation helps to shape future innovations in energy and infrastructure sector.

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2145

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www.knighthawk.com

KnightHawk Engineering specializes in Design, Failure Analysis and Troubleshooting of Static and Rotating Equipment. We are a Technology based Specialty-Engineering company offering Consulting, Field Services, Analysis and Testing. We have a broad spectrum of experience-based personnel utilizing our integrated systems approach to troubleshoot complex process equipment or to design and manufacture specialty equipment. Our customer base includes individual entrepreneurs to the largest industrial giants. With our new full function Metallurgical and Metrology Lab, our services include materials analysis, testing and reverse engineering.

KOBELCO COMPRESSORS AMERICA, INC.

2240

1415 Louisiana St., Suite 4111
Houston, TX 77002 USA
PH: 713-655-0015 | FX: 713-982-8450
www.kobelcocompressors.com

Kobelco Compressors America, Inc. began manufacturing compressors in 1915 and today is a global leader in compressor technology, engineering, and innovation. Kobelco designs, manufactures, and packages Screw (API619), Reciprocating (API618), and Centrifugal (API617) compressors for virtually any process gas application. Each system is custom engineered for optimum performance and outstanding return on investment. Through innovative technology and quality manufacturing, Kobelco offers solutions to boost productivity, reduce operating costs, and safeguard the environment. Visit us to speak with our compressor experts and learn more about our custom engineered compression solutions.

KONGSBERG MARITIME INC.

1401

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PH: 504-712-2799
www.kongsberg.com/maritime

Kongsberg Maritime is a world leader in marine technology. With an extensive portfolio of innovative and integrated products and solutions, Kongsberg Maritime delivers efficiency, reliability, flexibility, and environmental sustainability to enhance the business of its customers. Our approach to product design maximize performance by providing THE FULL PICTURE.

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1619

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www.kraftwerkseng.com

Kraft Werks Group, based in Medina, OH, is a manufacturer of equipment serving a broad range of markets including Oil & Gas, Petrochemical, and Power industries. Our various products include Gyrol brand fluid drives, TLT Ash Handling Systems, and Kraft Werks brand machinery. Kraft Werks is the North American representative for SETCON brand of electromechanical variable speed gearbox. The combination of Gyrol with SETCON offer a broad range of variable speed solutions for electric motor driven rotating equipment. Kraft Werks has over 100,000 sqft of manufacturing space that performs heavy fabrication, vertical & horizontal turning, dynamic balancing and assembly.

EXHIBITOR DESCRIPTIONS

KRAL-USA, INC.

1334

901A Matthews-Mint Hill Road
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PH: 704-814-6164
www.kral-usa.com

KRAL is a leading manufacturer of screw pumps and flowmeters with innovative solutions to meet industry demands. A wide portfolio including API pumps and custom engineered solutions help to assure a competitive edge for our customers within their area of business. We look far beyond our own product offerings to gain full understanding of the customer's requirements, applications and strategic plans. Professional customer service is affirmed with a certified QM system in compliance with EN ISO 9001:2015. After the purchase, a reliable and fast service team is there for you with product support.

KSB SUPREMESERV

1135

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www.standardalloys.com

Standard Alloys Inc., a KSB Company, is a full service solution provider offering replacement parts, repair and complete pump assemblies. Our factory and three repair centers are certified ISO-9001:2015 by DNV. Our services include custom engineered solutions designed by our engineering staff. These designs are supported with our in-house pattern shop, foundry and machine shop. We have the ability to pour over 300 alloys as well as develop custom alloys to fit your application. Parts manufactured at our Port Arthur, Texas foundry are supported by our extensive machine shop, which allows us to offer quick deliveries.

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www.kulite.com

Kulite is the World's recognized Leader in the science and engineering of piezoresistive sensors and holds more than 340 patents in this area. ISO 9001 Certified, Kulite manufactures all welded, high pressure, intrinsically safe, current output, voltage out, pressure transducers for resource exploration including submersible, downhole and towed array.

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www.laturbine.com

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L.A. Turbine (LAT), a Chart Industries company, performs turboexpander design, engineering, assembly, manufacturing, and testing for new and aftermarket equipment. In addition to LAT's traditional hydrocarbon processing, refrigeration, and power-generation and power recovery applications, LAT's turboexpander design for hydrogen and helium liquefaction, combined with Chart cryogenic processes and products, help customers achieve cleaner energy solutions faster. LAT also provides aftermarket field service, equipment repair, redesign and spare parts for LAT and non-OEM turboexpander brands. LAT's FX-TURBO team provides diagnostic, maintenance and consultative support 24/7/365 onsite and remotely via +1-855-398-8726. LAT is headquartered in Valencia, CA.

LANCER SYSTEMS

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PH: 610-973-2600 | FX: 610-973-2601
www.lancer-systems.com

1423

Lancer is an engineering and manufacturing firm trusted by customers in the defense, aerospace, natural gas and oil industries. Lancer deploys cutting edge plastic, fiber optic and CeraComp®, a patented ceramic matrix composite technology. When used in bad-actor-pump applications, our CeraComp® bearings, wear rings, and other petrochemical pump components provide significantly increase pump reliability/MTBF as compared to the same components produced from conventional metal, monolithic ceramic/SiC or polymer materials.

LEISTRITZ ADVANCED TECHNOLOGIES CORP.

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www.leistritzcorp.com

1126

Leistritz manufactures Screw Pumps for the process, oil and gas, power generation and transportation industries. A complete line of two, three, five and multiphase screw pumps handle flow rates to 15,000 gpm and differential pressures to 2,100 psi. Leistritz has the expertise to deliver packages requiring custom engineered solutions.

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1127

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PH: 508-893-3218
www.lewa-inc.com

For six decades we have set the technical standards for metering and process pumps, metering devices and complete systems for fluid metering. This is guaranteed by a solid technique, profound process and industry knowledge and the hermetically tight and absolute safe diaphragm technology. We design and manufacture efficient and customized solutions for virtually all metering, conveying, mixing, or odorizing tasks. With proximity to our customers – from engineering to technical advice or to commissioning on site – some 1,000 experts around the world enable a successful implementation of projects. High quality standards and a professional management ensure the best result.

LINCOLN ELECTRIC ADDITIVE SOLUTIONS

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www.additive.lincolnelectric.com

3D metal printing factory for large turbomachinery and pump parts. Lincoln Electric Additive Solutions is a 24 hours-a-day/7 days-a-week manufacturing services provider of large 3D printed metal parts. It is vertically integrated, manufacturing its own power sources, wire feedstock, automation equipment and even the slicing and path planning software, SculptPrint™ OS, ensuring delivery of high-quality parts. Additive Solutions delivers as-printed and finished parts from a variety of industrial metals, including steels, stainless steels, and nickel alloys. For more information about Lincoln Electric and its products and services, visit the Company's website at www.lincolnelectric.com

LOBEPRO ROTARY LOBE PUMPS

1123

2610 Sidney Lanier Drive
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PH: 912-466-0304 | FX: 912-466-0086
www.lobepro.com

LobePro Inc. manufactures 3 lines of rotary lobe pumps: S-Series: Sludge, Mud, & Slurries; C-Series: Corrosives & Chemicals; and D-Series: Abrasives & Corrosives. Each line is also available in an API-Series: API 676 Compliant version. LobePro Rotary Lobe Pumps handle abrasives, self-prime, pump thick viscous materials, and pump a steady GPM flow up to 2000 GPM at steady pressures up to 150 PSI. Pumps are used in oil and gas applications: pumping clean drilling fluid, feeding decanting centrifuges, booster pumps in pipelines for oil containing abrasives and waste oil, and pumping jet fuel and diesel from tanks requiring a suction lift.

LONE STAR BLOWER AND COMPRESSOR

3035

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PH: 832-532-3112 | FX: 832-532-3115
www.lonestarblower.com

Lone Star Blower, Inc. is a manufacturer, packager, and service company for blower and blower control systems with representatives located throughout North and South America and beyond. Products offered include gear driven single-stage turbo blowers with variable inlet and discharge guide vanes, gearless (high speed) turbo blowers, and vertically split multistage turbo blower technologies. Industries served include Water and Wastewater, Power, Petro-Chemical, Oil and Gas, Food and Beverage, Mining, and other industries using low pressure compressed air or gas in pressure or vacuum applications. Our aftermarket group provides repair services on most other major brand blowers in addition to our own.

LUBE-POWER, INC

1237

50146 Utica Drive
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www.lubepower.com

Established in 1979, Lube-Power is a world-class supplier of engineer-to-order lube, seal and control oil consoles for rotating equipment manufacturers. Lube-Power can now provide pressure vessels per ASME section VIII and seal reservoirs per API 682. Lube-Power also provides exceptional aftermarket service and support for our equipment, or manufacturer's equipment.

EXHIBITOR DESCRIPTIONS

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2627

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MAAG AMERICAS

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1113

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MACHINE SAVER'S IoT wireless and wired machine protection and condition monitoring solutions. We supply automated machine conditioning monitoring software. Our 3 axis and proximity probe sensors are intelligent wire less triaxial vibration and temperature sensors (VTBNet). Our low cost solution moves data and not people. Our unique products, software and service reduce total cost of ownership thru simplified installation, lowered cost of maintenance, carefree data maintenance and auto analysis. Our goal is to provide our customers a low cost total machine advanced warning and protection solution for pumps, motors, fans, blowers, gearboxes and compressors by providing unique products, software and exceptional services. www.machinesaver.com

MACHVIB SERVICES CORPORATION

2935

8866 Gulf Fwy., Ste. 520
Houston, TX 77017 USA
PH: 832-569-4426
machvibservices.com



MachVib Services Corporation is a vibration service company created to fill the needs for quality vibration monitoring services at a reasonable rate. Need an OEM replacement part but can't get it due to long lead times? Our partnership with various vendors allows us to provide access to replacement parts on demand. We are an independent vibration service company, therefore we can recommend the best possible solution for your vibration monitoring needs. At Machvib customer services is not a department, IT'S THE ENTIRE COMPANY!

MASTER BUILDERS SOLUTIONS

2625

889 Valley Park Drive
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www.master-builders-solutions.com

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EXHIBITOR DESCRIPTIONS

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1718

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Kemah, TX 77565 USA
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www.maudlinproducts.com

Maudlin & Son Mfg offers full custom job shop capabilities including 5-axis water jet, metal stamping, wire EDM, laser cutting, and custom shims made to your specifications. Maudlin & Son is now manufacturing aftermarket Gas Turbine Repair components. These components consist of picture frame Wear Strips and Impingement Sleeve Zippers used for repairs on transition pieces. Maudlin Products offers a full product line of slotted shims, coil shim stock, stainless steel Tool Wrap, feeler gage, key stock, drill rod, and threaded rod. Maudlin's Cantilevered Spring line includes the most standards in the industry, as well as the largest inventory of on-hand material.

MAYEKAWA U.S.A., INC.

2813

10810 Train Ct
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PH: 832-547-2320
www.mayekawa.com/americas/mna

With over 120,000 compressors delivered, Mayekawa has paved its way into various industries from Chemical, Oil & Gas, Petrochemical, and Turbomachinery. For almost a century, Mayekawa has been dedicated to improving its delivery of solutions by building a worldwide network. Through this dedication and contribution to the customer and the market, Mayekawa's own MYCOM brand compressor has grown to become one of the most renowned brand of compressors in the world. MYCOM compressors have been serving Oil & Gas and Chemical markets for various applications, from standard packages to custom design-build packages that must meet rigorous quality and performance requirements.

M McNALLY-LLC

2648

7400 Beaufonts Spring Drive
Richmond, VA 23225 USA
PH: 804-885-0482
www.mcnally-llc.com

McNally-LLC is a small consulting company that provides mechanical and reliability engineering services specializing in turbo-machinery and ancillary equipment. We use the latest engineering software, instrumentation, data analyzers, and extensive know-how to help end-users select and purchase the most reliable turbo-machinery with the lowest life-cycle cost. We thrive in identifying the root causes that are creating problems and have a proven track record of providing value-added, cost-effective, and sustainable solutions developing short- and long-term strategies.

MECHANICAL REPAIR & ENGINEERING, LP

1826

202 N. 18TH P.O. Box 1542
La Porte, TX 77571 USA
PH: 281-471-1061
www.mreinc.com

Mechanical Repair & Engineering, Inc. is an independent turbomachinery repair and service facility specializing in the reconditioning of high pressure, high energy, and multistage pumps, high speed gearboxes, steam turbines, and compressors. Its mechanical engineering staff, metallurgist, and years of dedicated maintenance service and experience offer the industry the highest quality engineered repairs. Its 40,000 ft² facility is equipped with lathe swings to 112", dynamic balancing capabilities to 15,000 lb, and lifting capacity to 40 tons. Mechanical Repair & Engineering is the only service center in the Gulf Coast area for Coperion Corporation.

MECHANICAL SOLUTIONS, INC.

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PH: 973-326-9920 x 125
www.mechsol.com

MSI's reputation is founded on its ability to solve difficult rotating machinery problems using specialized vibration, strain, dynamic pressure, operating deflection shape (ODS), and surge/stall testing and analysis techniques. MSI also provides complete turn-key machinery and component development services, mechanical and fluid dynamic analysis services, and foil (air) bearing designs and products. In addition to specialized field and lab testing tools, computational tools regularly utilized by MSI include computational fluid dynamics (CFD), finite element analysis (FEA), and rotordynamics analysis packages. MSI's years of machinery experience have been leveraged to develop and support its motion magnification high-speed video system, VibVue®.

EXHIBITOR DESCRIPTIONS

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1534

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Offering a wide selection of portable machining equipment to solve a variety of in-place machining tasks. Priding ourselves on same day shipping, international support, well maintained equipment and user-friendly service.

METCAR

1523

19 South Water Street
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www.metcar.com



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METRIX VIBRATION

1935

8824 Fallbrook Dr.
Houston, TX 77064 USA
PH: 281-940-1802
www.metrixvibration.com

Metrix Vibration, a leader in the condition monitoring & asset protection industry is the preferred supplier of vibration monitoring systems to many of the world's leading manufacturers and users of cooling towers, gas turbines, generators, pumps, motors, fans, reciprocating compressors, and other rotating machinery. With headquarters in Houston, Texas, Metrix operates in more than 40 countries via factory direct sales and with a strategic network of instrumentation partners. Metrix invented the technology of simple, affordable machinery protection with our vibration switch offerings, revolutionary 4-20mA vibration transmitters, robust high-temperature velocity sensors, and innovative impact transmitter technology. We look forward to working with our customers to provide the best solution to meet their requirements.

MIBA INDUSTRIAL BEARINGS/TCE

2511

1800 W. 13TH Street
Deer Park, TX 77536 USA
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www.miba.com/en/product-areas/industrial-bearings

Miba Industrial Bearings produce hydrodynamic bearings and labyrinth seals for use in the Petrochemical, Refining and Power Generation markets. Our products are used in a wide range of high-performance applications (centrifugal turbines, compressors, motors and industrial pumps). Our technology enables those applications to run more efficient, powerful and environmentally friendly. Regardless of where our customers are located, they can rely on the performance of Miba Bearings. We accompany our customers around the world, supporting them with our products and services. Our network spanning four continents allows us to respond quickly and flexibly to the various needs of our customers.

MITSUBISHI CHEMICAL GROUP

2041

2120 Fourmont Avenue
P.O. Box 14235
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www.mcam.com

Mitsubishi Chemical Advanced Materials is the global leader in engineered plastics used in static and dynamic HPHT applications such as seals, bushings, bearings and other rotational wear components. Booth #2041 will feature Ketron® PEEK (approved for NORSOK M-710), Fluorosint® PTFE, Duratron® PAI and PBI materials along with our proven turbocompressor seal material – Ketron® PEEK CM 1030 HT. Quadrant continues to meet or exceed end-user demands for performance and efficiency gains with engineered polymers.

MITSUBISHI HEAVY INDUSTRIES

1819

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EXHIBITOR DESCRIPTIONS

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1621

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www.modernpowersystems.com

Modern Power Systems examines the subjects that are changing the electricity sector, from generation, transmission and distribution to digitization and beyond. Renowned for its informed and insightful commentary MPS delivers up to date analysis and news as well as in-depth articles on trends, technology and exciting projects as well as leading opinion and thought from industry experts. With an impressive international print circulation of 11,749, the publication appeals to a broad cross-section of power industry professionals and its authoritative technical content makes it required reading for engineers involved in the development, construction, operation and maintenance of power plants and T&D systems.

MODERN PUMPING TODAY

1241

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www.mptmag.com

Modern Pumping Today is a national, monthly publication designed to keep the industrial pump and rotating equipment markets engaged and informed. Our articles address the key issues for the broad range of pump-reliant industries in every issue. The mission of MPT is to provide a blend of technical and educational-based insight, essential reading for the pump industry professional. MPT's readers are engineers and operations executives involved in new installations as well as continued maintenance and upgrades to existing facilities. MPT provides a unique opportunity to reach decision makers across the market. Find out more at www.mptmag.com.

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1035

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"The mission of Precision Machinery Contractors (Precision) is to provide best in class service for the life cycle of our client's rotating equipment with excellence in safety, quality, and efficiency. This is achieved by employing an elite team and providing them with premiere tooling, clear, practical, and up to date safety and quality systems, standard operating procedures, and continuous training." Our core team has over 150 years combined experience in the rotating equipment sector with key knowledge of:

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2217

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PUMPS & SYSTEMS MAGAZINE

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2535

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Riverhawk Company is a custom design engineering and manufacturing firm with over 400 years of engineering experience. Riverhawk core products originate from designs developed to solve specific customer issues when standard products could not meet the demand. Riverhawk engineered solutions have focused on fastening systems, rotational power transmission issues and shaft solutions across several industries. Riverhawk provides solutions to daily problems that most of the competition wouldn't even consider.

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PH: 713-468-7744 | FX: 713-465-2158
www.rockcarbon.com

ROC manufactures CARBON/GRAPHITE, metal, PTFE, PEEK, custom-seals, (segmented, labyrinth etc), Carbon seal faces for Mechanical seals, Bearings, and high-compression wear parts for Compressors, Turbines, Centrifugal pumps, Industrial Fans, Blowers. ROC manufactures Graphite Plates for a variety of industries as well. ROC supplies parts to OEMs, industrial repair companies, end-users (refineries, petrochemical, power plants). ROC's engineering support includes capability to design/modify seals, meeting individual customers sealing application. ROC OFFERS SAME DAY/ NEXT DAY DELIVERIES depending on the complexity of the parts. COME VISIT OUR NEW WEBSITE: WWW.rockcarbon.com ISO 9001:2015.

ROGERS EQUIPMENT SALES

2445

690 Sawmill Road
Durango, CO 81301 USA
PH: 970-259-7000
www.rogersequip.com

Electric motor specialists with expansive inventory of new, surplus, and used motors.

ROTATING EQUIPMENT REPAIR

1315

7721 Thomson Street
Pearland, TX 77581 USA
PH: 281-485-2400 | FX: 281-485-2406
www.specialtyrer.com

Specialty Rotating Equipment Repair, Inc., DBA Rotating Equipment Repair provides comprehensive repair, refurbishment, and maintenance on rotating equipment to the petrochemical and refining industry of the Houston and entire Gulf Coast area, as well as Oklahoma, New Mexico and Kansas. RER has become one of the primary non-OEM providers of turbine and pump repair, while offering trustworthy, reliable and efficient solutions to problems on all types of rotating equipment.

ROTATING MACHINERY SERVICES, INC.

1527

2760 Baglyos Circle
Bethlehem, PA 18020 USA
PH: 484-821-0702 | FX: 484-821-0710
www.rotatingmachinery.com

Rotating Machinery Services (RMS) was established in 1998 with the vision to reinvent the concept of an aftermarket turbomachinery business. The goal was to provide Turbomachinery operators with unparalleled service based on established relationships, solid engineering and technical expertise—all backed by responsiveness in competitive prices and lead times. RMS Specializes in: Axial & Centrifugal compressors; Gas, Steam, & Power turbines; FCC & Nitric acid expanders. RMS is your OEM provider for AC Compressor axial, centrifugal, and oil free screw compressors as well as CONMEC axial and centrifugal compressors. Visit rotatingmachinery.com to learn more.

ROTECH PUMPS USA INC

1222

16640 W Basin Street
Odessa, TX 79763 USA
PH: 289-327-3264
Rotechpumps.com

Rotech is a manufacturer and designer of various Pumps, Seals, and Valves. Rotech has a broad range of pumps including ANSI, ISO, Trash, Self-Priming and adding multiple product lines. Rotech is based globally, with main HQ in Texas and Toronto.

ROTH PUMP COMPANY

1217

P.O. Box 4328
Rock Island, IL 61204-4328 USA
PH: 309-787-1791 | FX: 309-787-5142
www.rothpump.com

ROTH PUMP is the leading developer and manufacturer of LOW NPSH regenerative turbine pumps. For over 89 years Roth has been handling high head (up to 3200 feet/975 M TDH), low flow (up to 150 GPM/34 M3/H) boiling point liquids. Use of Roth ONE FOOT /0.30 METER LOW NPSH pumps, significantly reduces required tank height which lowers design and construction costs. Roth Pump boiler feed, deaerator, condensate return systems handle water at 212°F/100°C, 250°F/121°C, 350°F/177°C and 400°F/204°C, which result in substantial energy savings.

EXHIBITOR DESCRIPTIONS

ROTOFLOW, AN AIR PRODUCTS BUSINESS

2719

2320 Highland Avenue
Houston, TX 77032 USA
PH: 832-462-4972
www.rotoflow.com

As a turbomachinery company blended with world-leading industrial gas operating expertise, Rotoflow is able to draw on decades of experience and operational know-how to design, build, and support mission-critical turbomachinery to the hydrocarbon, LNG, and industrial gas markets – helping customers across the globe reach their unique technology and performance targets more efficiently and reliably than ever before.

RUTHMAN COMPANIES PUMPS

2050

7236 Tyler's Corner Drive
West Chester, OH 45069 USA
PH: 513-559-1901
www.RuthmanCompanies.com

Ruthman Companies is family owned and operated and has been custom manufacturing a wide range of pump types for over 100 years. Its highly recognizable brand portfolio includes Gusher Pumps, Process Systems and Deming VTP pumps, Nagle Pumps, RAE Pumps, BSM Pumps, and Fulflo valves. Applications range from automotive paint, to NSF-certified clean water to abrasive slurry and high temp environments. In addition to offering a wide range of in-stock pumps, we custom build to your specifications, assist you with installation, and provide service for the life of your pump.

S

S.T. COTTER TURBINE SERVICES, INC.

1951

2167 196th Street East
Clearwater, MN 55320 USA
PH: 612-424-5614 | FX: 320-558-2365
www.stcotterturbine.com

S.T. Cotter Turbine Service is a complete turnkey service provider with a focus on Steam turbines, Gas Turbines & precision rotating equipment in refineries power plants, paper mills & ethanol plants. We provide service for planned maintenance, emergent outages &/or balance of plant. We Constantly exceed customer expectations.

S2W CONTRACTING LLC

1812

P.O. Box 422
Clarks Summit, PA 18411 USA
PH: 570-836-8362
www.s2wcontracting.com

S2W provides alignment, leveling, commissioning, installation, overhaul and maintenance of all kinds of turbomachinery. Foundation repairs, grouting and construction services.

SAMCO ENTERPRISES

1440

16115 Aldine Westfield
Houston, TX 77032 USA
PH: 281-690-3730
www.samcoenterprises.com

SCHNEIDER ELECTRIC

1912

17146 Feathercraft Lane
Webster, TX 77598 USA
PH: 281-709-1253
www.schneider-electric.us/en/work/solutions/industrial-process-automation/turbomachinery-control

Schneider Electric is the global specialist in energy management and automation. With revenues of ~€27 billion in FY2015, our 160,000+ employees serve customers in over 100 countries, helping them to manage their energy and process in ways that are safe, reliable, efficient and sustainable. From the simplest of switches to complex operational systems, our technology, software and services improve the way our customers manage and automate their operations. Our connected technologies reshape industries, transform cities and enrich lives. At Schneider Electric, we call this Life Is On.

EXHIBITOR DESCRIPTIONS

SCHUNK CARBON TECHNOLOGY LLC

1408

W146 N9300 Held Drive
Heuchelheim 35452 Hesse GERMANY
PH: 262-253-8720
www.schunk-carbontechnology.com/

As a globally active technology group, Schunk is a leading supplier of products made of high-tech materials – such as carbon, technical ceramics, quartz and sintered metal – as well as machines and systems – from environmental simulation and air conditioning to ultrasonic welding and optical machines. For the sealing, pump and compressor industry Schunk produces highly specialized carbon, silicon carbides, composite materials and fiber-reinforced materials for seal rings, bearings, vanes, sleeves and other components. The high reliability of our materials combined with the inhouse application engineering help customers to increase the lifetime of their products for various applications.

SCOTT ROTARY SEALS

3014

301 Franklin Street
Olean, NY 14760 USA
PH: 716-376-0708 | FX: 716-372-1777
www.scottrotaryseals.com

With over 5 decades of experience in specialized fluid sealing applications and complete in-house production capabilities, SRS provides flexible and innovative solutions for a wide range of industries. With a narrow focus on rotary union, rotary timing valve, and Babbitt bearing technology, SRS delivers products with performance and precision that exceed industry standards. SRS also Specializes in design (including reverse engineering), production, and repair of precision tilting pad and fixed geometry Babbitt Bearings. Babbitt precision OEM bearings for high speed rotating equipment: compressors, turbines, gearboxes, electrical motors, and pumps.

SEALING EQUIPMENT PRODUCTS COMPANY (SEPCO)

1215

123 Airpark Industrial Road
Alabaster, AL 35007 USA
PH: 205-403-7500
www.sepco.com

SEPCO is a global sealing solutions provider based in Alabaster, Alabama. With a history of providing quality fluid and dry sealing components, SEPCO manufactures compression packing (including pump and valve packing), mechanical seals, gasket materials, high-performance plastics, air seals, and bearing isolators.

SENSORADE SA

2819

151 Rue des Ormes
B-4800 Lambermont BELGIUM
PH: (+)33767401134
www.sensorade.eu

SENSORADE is specialized in ultra-miniaturized pressure sensors for harsh environments ranging up to 185°C. This unique technology served the Wind Tunnel and Testing Engineering community. SENSORADE is the only OEM offering the smallest (1.2mm) sensor with the highest performance in the world.

SETTIMA USA INC.

2907

1555 N. Mittel Blvd.
Wood Dale, IL 60191 USA
PH: 630-812-1433
www.settima.it

Settima Meccanica designs and manufactures no noise hydraulic pumps for more than 40 years.

SHACKELFORD-WATTNER

2115

7405 Major St.
Houston, TX 77061 USA
PH: 713-644-5595
www.swtcb.com

Shackelford-Wattner along with our sister company, Kile Industries, Inc., is conveniently located in the shadow of Houston's Hobby Airport and has been servicing the needs of the rotating equipment industry for over 50 years. Shackelford-Wattner and Kile Industries have earned a reputation for producing the highest quality products and services which include manufacturing, balance, inspection, repair, replacement, special fasteners, lapping tools, and plug/ring gages for all types of gear, disc, and diaphragm couplings. We take great pride in being able to provide quick, accurate, and complete support of couplings and coupling related products.

SHAFT EARTHING SOLUTIONS

1502

8 Airport Road
Dubai United Arab Emirates
PH: (+)971568741487
www.shaftearthing.com



Shaft grounding specialists. Supplier of grounding brushes and shaft current/voltage monitors.

EXHIBITOR DESCRIPTIONS

SHANLEY PUMP & EQUIPMENT

1026

2525 S. Clearbrook Drive
Arlington Heights, IL 60005 USA
PH: 847-439-9200 | FX: 847-439-9388
www.shanleypump.com

Shanley Pump is in suburban Chicago. For over 40 years, we have been a stocking supplier of positive displacement pumps for lube oil, fuel oil and hydraulic oil pumping applications. Our factory trained sales engineers offer immediate response to pump inquiries.

SHIN NIPPON MACHINERY CO., LTD.

1947

16055 Space Center Blvd., Suite 750
Houston, TX 77062 USA
PH: 281-990-8594 | FX: 281-990-8594
www.snm.co.jp

Shin Nippon Machinery is the only manufacture in the world that produces API610 process pumps and API611/612 steam turbines in the same factory in Japan. This package solutions approach uniquely address the need on the oil and gas industry. With high quality and reliability, SNM's process pumps and turbines have been adopted for use in refining and petrochemical equipment in more than 70 countries around the world.

SIEMENS ENERGY INC.

15375 Memorial Drive
Houston, TX 77079 USA
PH: 713-973-5497
www.siemens.com



SIEMENS
energy

2227

Siemens is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. In fiscal 2017, which ended on September 30, 2017, Siemens generated revenue of €83.0 billion and net income of €6.2 billion.

SIEMENS LARGE DRIVES LLC

1421

100 Technology Drive
Alpharetta, GA 30005 USA
PH: 281-236-2333
<https://www.siemens.com/us/>

Siemens Large Drives are one of the world's leading manufacturers of medium and high voltage motors and drives. These products form the basis for drive systems optimized to meet the demands for nearly any industry and application. Our portfolio is expanded to include complete solutions including electrification and automation. Digitalization solutions and our extensive global services complete the range.

SIFCO ASC

1311

5708 E. Schaaf Road
Independence, OH 44131 USA
PH: 800-765-4131
www.sifcoasc.com

SIFCO Applied Surface Concepts 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. SIFCO ASC 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.

SIMERICS, INC.

2911

1750 112TH Ave. N.E., Ste. C250
Bellevue, WA 98004 USA
PH: 425-502-9978
www.simerics.com

Simerics-MP+ CFD software is an efficient and accurate tool that can be used to simulate and analyze a wide range of positive displacement machines (pumps and compressors), valves, motors, turbomachines and hydraulic systems. The complete time dependent three-dimensional CFD transport equations are solved and the predictions have been extensively validated with measurements. Examples of Pumps include Gerotor, Crescent, Variable Vane, External Gear, Radial Piston, Bent Axis Piston, Progressive Cavity, Swash Plate Piston, Rolling Piston, Variable Flow Gear, Axial-Centrifugal. Compressors include Scroll, Lobe, Single Screw, Twin Screw, Rolling Piston, Reciprocating, Vacuum, Axial-Centrifugal. Valves include Spool, Control, Release, Ball, Poppet, Flip, Axial, Circumferential.

EXHIBITOR DESCRIPTIONS

SKF MAGNETIC MECHATRONICS

2141

2 rue des Champs
Saint-Marcel 27950 Eure FRANCE
PH: (+)0232643323
www.skf.com

The SKF S2M Magnetic Bearing is a standard for Oil & Gas turbomachinery, with more than 1200 references in operation, and now having successfully pioneered the application to subsea natural gas compressors. It allows oil free design of centrifugal compressors, high speed electric motors, turboexpanders and turbines. A highest reliability is achieved, powerful monitoring at user's disposal, and the concept avoids oil lubrication issues like acid gas dilution, clogging in heat exchangers, energy consumption, fire risk. Turbomachinery with SKF S2M Magnetic Bearings is used in onshore and offshore, upstream to downstream, for natural gas treatment, transportation, storage, petrochemical production or power generation.

SLM SOLUTIONS

1403

48561 Alpha Dr
Wixom, MI 48393 USA
PH: 248-850-4925
www.slm-solutions.com/de

SLM Solutions is an integrated solutions provider and metal additive manufacturing partner. The company takes a vested interest in customers' long-term success with metal additive manufacturing, and its robust Selective Laser Melting machines optimize fast, reliable, and cost-efficient part production. SLM Solutions' experts work with customers at each stage of the process to provide support that elevates the use of the technology and ensures their return on investment is maximized. A publicly-traded company, SLM Solutions Group AG is headquartered in Germany, with offices in Canada, China, France, India, Italy, Russia, Singapore, and the United States.

SMP (SPECIALTY MAINTENANCE PRODUCTS)

1643

5711 Clarewood; Suite A&B
Houston, TX 77081 USA
PH: 713-667-4402 | FX: 713-669-8618
www.smptools.com

SMP provides safer and more efficient tools for removing open and closed impellers off of ANSI centrifugal pumps. Hand Safety, and the protection of internal seals, make the KIRIS impeller removal system a must have for your pump shop. SMP also manufactures and distributes safer and more efficient tools for pipe and flange maintenance.

SOFTINWAY INC.

1815

20 Burlington Mall Rd, Ste 450
Burlington, MA 01803 USA
PH: 781-328-4310
www.softinway.com

SoftInWay, Inc. is a global R&D engineering company specializing in the development of efficient turbomachinery components and systems by offering its integrated and automated software platform, AxSTREAM® for all steps of the turbomachinery design, redesign, analysis, and optimization process (including complete 3D design, thermodynamic cycles, rotor dynamics, and secondary flow and cooling system simulation). SoftInWay also offers a number of engineering services and educational courses, available both online and in a classroom-style setting.

SOHRE TURBOMACHINERY INC.

2728

34 N. Maple St., Ste. 7
Florence, MA 01062 USA
PH: 413-267-0590 | FX: 413-567-0592
www.sohreturbo.com

Sohre makes shaft grounding brushes to control stray electrical currents in electrical and nonelectrical turbomachinery (compressors, Sohre brushes are useful for electrostatic, electromagnetic, or other electrically induced stray currents. The current rating of Sohre brushes ranges from 1 to 100 DC amperes per year of bristle life. Brushes utilize special alloy bristles and are run directly on shaft, either dry or in oil. Cleaning or maintenance generally is not necessary.

SOLAR TURBINES INCORPORATED

1719

P.O. Box 85376
San Diego, CA 92186-5376 USA
PH: 619-544-5352
FX: 619-544-2633

Headquartered in San Diego, California, USA, Solar Turbines, a subsidiary of Caterpillar Inc., is one of the world's leading manufacturers of industrial gas turbines and compressors, with approximately 15,000 units with more than 2.3 billion operating hours in more than 100 countries. Products from Solar play an important role in the development of oil, natural gas and power generation projects around the world. Solar's products include gas turbine engines, gas compressors, and gas turbine-powered compressor sets, mechanical-drive packages and generator sets.

EXHIBITOR DESCRIPTIONS

SOLBERG OIL MIST ELIMINATORS

1503

1151 Ardmore Ave
Itasca, IL 60143 USA
PH: 630-616-4411
<http://www.solbergmg.com>

Solberg designs and manufactures vacuum assisted and static oil mist eliminator systems to capture the vented emissions from turbine and compressor lube oil systems, and engine crankcases. Our systems protect the rotating equipment by preventing seal leakage and protect the surrounding environment by eliminating the oily emissions.

SOUTHERN STATES MILLWRIGHTS

2052

18525 W Lake Houston Pkwy Suite 103
Humble, TX 77346 USA
PH: 281-460-1886
www.southernstatesmillwrights.org



The Southern States Millwrights Regional Council was established over a decade ago to address the growing need for a safe, skilled, productive rotating equipment workforce in the Southern United States. The SSMRC is nearly 6000 members strong and we are constantly training tomorrow's workforce to keep up with demand and recruiting the best in the industry to service our partners.

SOUTHWEST IMPREGON

2413

15014 Lee Rd.
Humble, TX 77396 USA
PH: 281-441-2000 | FX: 281-441-1221
www.swimpregon.com

Southwest Impregon, a protective coating applicator located on the NE side of Houston, has been serving the Gulf Coast since 1976 solving corrosion, fouling, erosion, and heat related issues for the rotating equipment industry, with crane capacity of up to 50 tons, and the recent addition of thermal spray capabilities.

SPARKCOGNITION

1410

12708 Riata Vista Cir
Austin, TX 78727 USA
PH: 936-707-2114
www.sparkcognition.com

SparkCognition delivers enterprise scale AI solutions that enable organizations to optimize processes, predict future outcomes, and prevent cyberattacks. We augment human intelligence, driving digital transformation and bottom-line results. With deep expertise across critical industries, we're working together with our clients to help solve problems, big and small, that matter most to them.

SPECTRA QUEST, INC.

2908

8227 Hermitage Road
Richmond, VA 23228 USA
PH: 804-261-3300 | FX: 804-261-3303
www.spectraquest.com

Manufacturer of Machinery Fault Simulators for the Mechanical Engineering Community.

SPRING POINT SOLUTIONS

3023

4 Moulton St
Portland, ME 04101 USA
PH: 888-382-7835
www.springpt.com



Spring Point is a software company catering to the unique requirements of the industrial community where consistency and quality are crucial. We have a proven track record with our flagship ERP system, MotorBase® and our QM [Quality Management] Wizard (TM), which supplements training, facilitates consistency, and ensures high quality work while bridging the experience gap between young unskilled labor and the experienced, retiring workforce. Our software programs are integrated into a single comprehensive suite that can be tailored to meet the needs of individual companies of any size.

SSS CLUTCH COMPANY, INC.

2320

610 West Basin Road
New Castle, DE 19720 USA
PH: 302-322-8080
www.sssclutch.com

SSS Clutches- Propulsion systems for 50+ navies; 650+ peak-load generators for synchronous condensing, single-shaft combined-cycle plants, steam turbines to 400 MW in CHP/Cogen, (CAES) plants, 500+ diesel engine driven rotating UPS generators, dual driven pumps, dual driven compressors, including gas pipeline, dual driven process and boiler fans, energy recovery applications, thousands of turning gear and gas turbine starter drives.

STEIN SEAL INDUSTRIAL DIVISION

2527

375 East Church Road
Telford, PA 18969 USA
PH: 215-256-0201 | FX: 215-703-9864
www.steinsealind.com

Stein Seal Industrial Division is a world-class manufacturer of mechanical sealing systems. With over sixty years of mechanical seal Development, Engineering, Manufacturing, and repair service history. With strategic repair and development centers, Stein is uniquely positioned to service the needs of the turbine, compressor, petrochemical and heavy industries market segments.

EXHIBITOR DESCRIPTIONS

STORK H&E TURBO BLADING

2220

334 Comfort Rd.
Ithaca, NY 14850 USA
PH: 607-277-4968 | FX: 607-277-1193
www.he-machinery.com

Stork is the leading manufacturer of steam turbine blades, buckets and nozzles, gas turbine compressor blades, stator vanes, IGV, axial compressor, expander, FD, ID blower and generator blades. Stork is the largest and oldest independent manufacturer of these spares in the world. All OEM model turbines are supported, including obsolete nameplates. Stork delivers world class quality, at pricing and delivery that will be a welcome improvement upon your usual OEM experience. Stork also offers reverse engineering services for all of your components from small pins or valve parts, to the largest turbine casings. We use our 3D Blue Light Laser scanning system to capture your critical part data.

STRUCTURAL TECHNOLOGIES

2913

1003 Clay Court
Columbia, MD 21046 USA
PH: 281-241-5809
www.structuraltechnologies.com

STRUCTURAL TECHNOLOGIES is firmly committed to its mission of making structures stronger and last longer. We develop and integrate products, engineering support, repair and maintenance services to provide value-added solutions to owners, engineers and contractors. STRUCTURAL TECHNOLOGIES provides state-of-the-art proprietary products and engineering support, and delivers repair & maintenance services through our construction licensees.

SULLAIR A HITACHI GROUP COMPANY

2517

1 Sullair Way
Michigan City, IN 46360 USA
PH: 800-785-5247
www.sullair.com/oilfree

Sullair provides a broad range of centrifugal compressor options in both packaged and custom configurations. The Sullair lineup includes products up to 118,000 cfm with discharge pressures up to 725 psi all providing oil free air. Sullair and parent company Hitachi have over 80 years combined oil free compressor experience.

SUMITOMO HEAVY INDUSTRIES GEARBOX CO., LTD.

2647

3-33, 2-Chome, Nakanoshima, Kita-ku
Osaka-shi 530-0005 Osaka JAPAN
PH: (+)815020362629
www.shigearbox.com

Sumitomo Heavy Industries Gearbox Co., Ltd., formally called SEISA Gear Ltd., has more than 100 years of manufacturing experience in highly customized gear drives, highspeed acceleration and reduction gears for compressors and turbine generators, mill drives for cement and coal, and gear couplings. As a result, those geared products are trusted and used in various fields as key components.

SUNDYNE, LLC

2235

14845 West 64TH Ave.
Arvada, CO 80007 USA
PH: 303-425-0800
www.sundyne.com

Sundyne manufactures highly reliable engineered process Pumps and Compressors. The Sundyne product line consists of Ansimag Magnetic Drive Non-Metallic Pumps, HMD/Kontro API-610/685 Pumps, Sundyne API-610 Pumps, Sundyne API-617 Process Compressors, Marelli API-610 Pumps, and Sunflo High Pressure Pumps. With facilities and expert Channel Partners around the world, Sundyne products are an integral part of the process industries that fuel life's basic needs.

SOUTHWEST RESEARCH INSTITUTE

2626

6220 Culebra Road
San Antonio, TX 78238-5166 USA
PH: 210-522-2960
www.machinery.swri.org

Southwest Research Institute® (SwRI®) is an independent, nonprofit, applied research and development organization, founded in 1947 and headquartered in San Antonio, Texas, with more than 3,000 employees and an annual research volume at nearly \$726 million. SwRI provides quick-response field consultation and design services to solve vibration, pulsation, and performance problems associated with plant machinery and piping systems. SwRI is recognized for its turbomachinery services from concept design to full-scale testing.

EXHIBITOR DESCRIPTIONS

T

T.F. HUDGINS, AN ALLIED RELIABILITY BRAND

1627

10344 Sam Houston Park Dr., Suite 110
Houston, TX 77064 USA
PH: 713-682-3651
www.alliedreliability.com

T.F. Hudgins, an Allied Reliability brand, specializes in protecting assets and driving reliability improvements for reciprocating and rotating machinery using proven solutions and in-depth application expertise. We leverage internal engineering, manufacturing, and project management capabilities, as well as the resources of leading manufacturing partners to yield meaningful improvements in productivity, longevity, efficiency, cost-effectiveness, safety, and environmental compliance.

TECHNOGENIA INC

1742

708 Old Montgomery Rd.
Conroe, TX 77301 USA
PH: 936-441-4770
www.technogenia.com

Hardface lasercladding and coating using formulated powders.

TECHSTAR

2348

802 W. 13TH St.
Deer Park, TX 77536 USA
PH: 281-542-0205
www.techstaris.com

With over 20 years in process controls and industrial automation, TechStar has everything needed to help get your measurement and process challenges solved and running in their optimal performance and output. Experience, innovative solutions, training and service are the foundation of what TechStar offers to customers. Backed by our world class manufacturing strategic partners, our team is well equipped to see you through every step of the toughest applications and challenges.

TEIKOKU USA

1216

959 Mearns Road
Warminster, PA 18974 USA
PH: 267-485-4043
www.teikokupumps.com

Sealless and Leakproof Canned Motor Pumps, as designed and manufactured by the global Teikoku Group, provide customers looking for high levels of mechanical reliability and fluid containment the ultimate in centrifugal pumps for the transfer of hazardous, expensive and environmentally sensitive fluids. Teikoku and Chempump products are loaded with features that help users reduce installation, maintenance and space-related costs.

TERN TECHNOLOGIES, INC.

1735

200 W. 34TH Ave., # 1017
Anchorage, AK 99503 USA
PH: 907-522-2411 | FX: 907-522-2412
www.terntech.com

Tern Technologies, Inc. is a full service rotating equipment consulting group offering the best in optical and laser alignment, precision measurement, vibration analysis, mechanical engineering and instrumentation support. Their personnel have extensive world-wide experience with a wide variety of rotating equipment. Industries serviced include power generation, petrochemical, pipeline, pulp and paper, mining and marine propulsion. Services include shaft alignment, thermal growth studies, internal alignment, routine periodic vibration surveys, field balancing, vibration analysis and permanent vibration monitoring system engineering, installation and maintenance. Rotating equipment engineers provide field service support for construction and start-up, failure analysis and design audit.

TEXAS COMPRESSION, LLC

2915

2214 West 43RD Street Suite: B
Houston, TX 77018 USA
PH: 713-290-0202 | FX: 713-290-0303
www.texascompression.com

Texas Compression, LLC is a Houston-based mechanical and industrial services contractor offering a complete range of professional and technical services. Our mission is to safely deliver the highest level of service and premium products maximizing the uptime of critical process equipment. With more than 30 years' experience working in the energy industry, we guarantee we will safely complete your project and exceed your expectations. Texas Compression specializes in situations where safety, quality and reliability are a priority.

EXHIBITOR DESCRIPTIONS

THE VIBRATION GUYS, LLC

3027

PO Box 1944
Pearland, TX 77581 USA
PH: 281-576-7212 | FX: 832-295-4840
www.thevibrationguys.com

The Vibration Guys™ is a world-class condition monitoring solutions company that specializes in vibration analysis, non-destructive testing, laser alignment, field balancing and other specialized services and diagnostic services for rotating equipment. We provide preventive and predictive maintenance for all industries utilizing rotating equipment including the oil & gas industry encompassing upstream, midstream, and downstream; petrochemical, chemicals, energy generation & transmission, food and beverage bottling and manufacturing, forestry, medical & specialty gases production, and other manufacturing specialties. We have pump specialists with over 30 years of field experience.

THOMAS PUMP & MACHINERY

1027

120 Industrial Drive
Slidell, LA 70460 USA
PH: 985-649-3000
www.ThomasPump.Com



Thomas Pump manufactures the T-GTO Pitot Tube pump in the USA. The T-GTO is a high-pressure centrifugal pump designed for a pressure range of 600-1500 psi and flow rates up to 400 GPM. In addition, we engineer, design, and manufacture custom pump systems that are tailored to your plant's demand. Our commitment to service is highlighted by our 24/7 XCHANGE program, sending out replacement pumps to customers within 24 hours of a request.

THORDON BEARINGS INC.

1711

3225 Mainway
Burlington ON L7M 1A6 Ontario CANADA
PH: 905-335-1440 | FX: 905-335-4033
www.ThordonBearings.com

Thordon Bearings designs and manufactures a complete range of self-lubricating polymer bearings for various operating environments. Thordon has several grades that in virtually all applications and can replace greased bronze bearings in all applications where they are currently installed such as vertical pumps, aerators, flocculators, screens, butterfly valves or pivot point applications. Thordon polymers are easy to machine and tube stock can be kept on the shelf for quick repair. Thordon's strong and recognizable global brand is known for high quality and superior performance.

TORQUEMETERS LIMITED



2735

West Haddon Road
Ravensthorpe NN6 8ET Northamptonshire UNITED KINGDOM
PH: (+)4401604770232 | FX: (+)4401604770778
www.torquemeters.com

Measuring steady state torque and torsional vibration in a single product, their Torquetronic(TM) Continuous Duty Torque measurement system is the recognized industry standard for accurate power measurement of mechanically driven turbo machinery in the Oil, Gas and Petrochemical industries. Torquemeters' 800 family of display electronics provides a flexible platform to show real time continuous torque and torsional vibration analysis, including FFT capability. SIL2 capability now available for real time accurate torque/power measurement for process control.

TOTAL INDUSTRIAL SERVICES SPECIALTIES, INC.

1531

12800 Fuqua, St
Houston, TX 77234 USA
PH: 281-922-7555 | FX: 281-922-7555
www.tissinc.com

Total Industrial Services Specialties, Inc. (TISS) Is the one stop shop for Millwright Services, Field Machining, Bolt Toquing, Machine Shop Services and Equipment Repair. We specialize in the installation, maintenance and repair of Turbines, Pumps, Compressors (Reciprocating and Centrifugal), Extruders, Gear Boxes and other Related Equipment. TISS takes great pride in providing quality, efficiency and most of all, the safest workforce in the industry.

TRICO CORPORATION

1747

1235 Hickory Street
Pewaukee, WI 53072 USA
PH: 262-509-0416 | FX: 262-691-2576
www.tricocorp.com

Trico Corporation provides lubrication management solutions with a focus on industrial equipment performance and reliability. We have accomplished this by combining high-performance lubrication products with our oil analysis services and in-plant services, as well as lubrication management training. Our core products include storage and handling, contamination control, oil sampling, constant level lubrication, desiccant breathers, oil level sensor, grease lubrication, filtration, central lubrication, and visual inspection products.

EXHIBITOR DESCRIPTIONS

TRINITY COATINGS LLC

2715

25225 Highway 288
Rosharon, TX 77583 USA
PH: 281-845-0022
www.trinity-coatings.com

Trinity Coatings, LLC was formed in 2014 in Rosharon, Texas. We started to provide a coating solution to our sister company Trinity Turbine Technology, LP. Trinity Coatings, LLC now grown to provide coatings services and solutions to numerous companies in the Power Generation, and Oil & Gas, and Petrochemical industries.

TRI-SEN SYSTEMS CORPORATION

2249

109 Magellan Circle
Webster, TX 77598 USA
PH: 281-286-9700
www.tri-sen.com

Tri-Sen Systems Corporation, provides turbomachinery controls and consulting to the power and process industries with a focus on supplying application appropriate control for turbines, compressors and generators.

TSS TURBINE SPECIALTY SERVICES

2641

309 CR 2242
Cleveland, TX 77327 USA
PH: 281-562-7655
www.turbinespecialty.com

Steam Turbine Repair and parts Pump repair and Service Gear Box Repair and Service Babbitt Bearing manufacture and repairs Fab shop- Skids, Tanks, Gas and Oil Manufacture Parts- All Steam Turbines New Rotors Machining - Line Bore, Fly Cutting, incerts, Balancing- of all types of Rotors Sand Blasting - Industrial Painting.

TURBINE PUMP AND COMPRESSOR

2542

8040 Leesa Lane
Pasadena, TX 77507 USA
PH: 281-991-1997 | FX: 281-991-1564
www.T-P-C.net

TPC is specialized in shop repair, field service repair and sales of parts for steam turbines, pumps, blowers, gearboxes, reciprocating and centrifugal compressors. We package reciprocating compressors and pump units. TPC performs complete compressor overhauls in the field or in the shop. Compressors can be re-engineered for process changes or to maximize capacities. FEA studies are performed to maximize new designs of piston and rod assemblies. Manufacture new cylinder liners and install complete in cylinders.

TURBOMACHINERY INTERNATIONAL PUBLICATIONS

1829

485f US Highway 1 South, Suite 210
Iselin, NJ 08830 USA
PH: 609-716-7777
www.turbomachinerymag.com

Turbomachinery International covers industries engaged in all forms of energy, including power generation, electric utilities and cogeneration. It also covers oil & gas refining, gas processing, compression, drilling and exploration. The emphasis is on application where gas and steam turbines and related turbomachinery are used worldwide. Coverage includes maintenance, overhaul and repair of all turbines and rotating equipment, including pumps and compressors. Turbomachinery News/Blog is an interactive hub, featuring a daily newsletter loaded with the latest news, blogs, commentary from top experts around the world, engineering data and graphics, and cutting-edge stories that you won't find in print.

TURBOMACHINERY LABORATORY

2022

Texas A&M University
MS 3254
College Station, TX 77843-3254 USA
PH: 979-845-7417
turbolab.tamu.edu



TURBOMACHINERY LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

The Turbomachinery Laboratory, part of The Texas A&M System, conducts theoretical and applied research into reliability and performance of turbomachinery. The Turbo Lab impacts the industry through three pathways: 1) Research: The Turbomachinery Research Consortium was formed in 1983 to find answers to important questions of reliability and performance of turbomachinery for industrial companies who supply annual research grants. 2) Education: The Turbo Lab produces engineers ready to work by offering undergraduate and graduate engineering education. 3) Professional Workforce Development: The Turbo Lab organizes the annual Turbomachinery & Pump Symposia in Houston and the biennial Asia Turbomachinery & Pump Symposium in Singapore.

TURBOTIDES, INC.

21 Pinneo Hill Rd.
Hanover, NH 3755 USA
PH: 480-313-7277
www.turbotides.com



1749

TurboTides is the newest most modern and powerful Design and Analysis software system available for all disciplines of Turbomachinery - Pumps, Compressors, Fans and Turbines. Emphasis is placed on modern and seamless workflow for more rapid and accurate design iterations. TurboTides is also premiering an industry first 'AI Driven Optimization' for turbomachinery. For the first time, users will be able to design compressors, fans, pumps, and turbines with a seamlessly integrated design workflow combined with a powerful optimizer to achieve fast turnaround times for their design iterations.

EXHIBITOR DESCRIPTIONS

U

UNIVERSAL PLANT SERVICES

1647

4460 Highway 225
Deer Park, TX 77536 USA
PH: 281-694-6000 | FX: 281-479-6273
www.universalplant.com

Universal Plant Services (UPS) is one of the largest comprehensive service providers for the energy industry, providing project management, installation, maintenance and repair services for rotating and fixed equipment for daily maintenance requirements, turnarounds and capital projects.

V

VELO3D

1422

511 Division St.
Campbell, CA 95008 USA
PH: 408-610-3915
www.velo3d.com

Velo3D provides end-to-end metal 3D printing solutions for mission-critical parts in the space, transportation, and energy industries. Unlike conventional metal 3D printing solutions or traditional manufacturing methods, Velo3D helps design engineers build the complex parts they need without compromising their design or part quality.

VIBRATION INSTITUTE

1620

2625 Butterfield Rd.
Oak Brook, IL 60523 USA
PH: 630-654-2254
www.vi-institute.org

The mission of the Vibration Institute is to disseminate practical information on evaluating the behavior and condition of machinery without commercial interest. The Institute offers a variety of programs, including education, training, certification, and opportunities for technical knowledge exchange. Our members share information, procedures, and cutting-edge data through formal training, networking, meetings, and publications. We are a non profit Association and extremely proud that the our vibration analyst personnel certification program was accredited by the American National Standards Institute in March 2010. ANSI, now ANAB (ANSI National Accreditation Board).

VIEWTECH BORESCOPIES

2929

1745 Barlow Street
Traverse City, MI 49686 USA
PH: 231-943-1171 | FX: 231-680-4264
www.viewtech.com

ViewTech is North America's top borescope company. ViewTech Borescopes mechanical articulating video borescope is a nondestructive visual testing instrument used for the remote visual inspection of machinery, equipment, and components. Our borescopes are available in a variety of configurations suitable for different tasks, with optional insertion tube lengths and diameters, as well as different light wavelengths: white, infrared, or ultraviolet. The video signal from the VJ-3 can be viewed on the integrated LCD display or an external monitor. Contact us for a no-cost, no-obligation video borescope demo that allows you to test-drive a ViewTech borescope at your own facility!

VOITH TURBO

2703

25 Winship Road
York, PA 17406 USA
PH: 717-767-3200
www.voith.com/usa/en

The advanced technologies of Voith Turbo drive machines that move millions of people and goods throughout the world. These technologies safely and efficiently transmit and control power under extreme conditions. The company's extensive range of power transmission products are available for new and retrofit applications which include hydrodynamic variable speed turbo couplings, multistage variable speed drives, high speed and high powered API gearboxes, electrohydraulic actuators, I/P converters, and digital turbine control modules. Featured is the all new VoreconNX, a groundbreaking hydrodynamic power transmission that offers an 8% efficiency improvement in the lower power range.

VORTEX PIPE SYSTEMS

2053

3736 Bee Caves Rd
Austin, TX 78746 USA
PH: 713-623-3085
www.vortexpipe.com

Vortex produces advanced flow technology pumps, ESP's, pipe components, flow assurance and sophisticated drainage devices. Vortex' unique high velocity rotational flow increases line capacity with energy savings, due to greatly reduced friction and prevents line blockages. They are also piggable. Vortex delivers compound lifetime CapEx and OpEx savings for Brownfield and new fluid flow projects. Vortex units have no moving parts, consume no energy and need no maintenance. Their adoption into lines permanently improves the system curve. Ask us how Vortex can help solve your flow problems, reducing energy and other OpEx costs.

EXHIBITOR DESCRIPTIONS

W

WEG

6655 Sugarloaf Pkwy.
Duluth, GA 30097 USA
PH: 678-249-2000
www.weg.net

2151

Founded in 1961, WEG has grown into a global solutions provider of industrial electrical technologies. WEG is the largest industrial electric motor manufacturer in the Americas and one of the largest manufacturers of electric motors in the world producing more than 10 million units annually. Committed to growth on a global scale, WEG continually invests in state-of-the-art manufacturing facilities and processes, and the development of new and improved industrial electrical solutions. WEG offers a diverse and integrated product line that includes motors, drives, controls, transformers, and generators. WEG has committed to an R&D investment of 3% of annual global sales.

WOOD

15115 Park Row Drive
Houston, TX 77084 USA
PH: 281-920-4442
www.woodplc.com/vdn

2317

Wood's vibration, dynamics and noise capability (VDN) is the leading provider globally in addressing vibration, reliability, integrity and noise issues on compressors, pumps, piping and associated equipment. Specialist design and field services include pulsation, torsional, lateral, surge simulation, ODS, resonance, water hammer, piping transients, piping integrity checks, pipe stress, acoustic fatigue, FIV, FIT, AIV, and small-bore piping analyses for onshore, offshore and subsea facilities. VDN also provides damping products and absorbers to control vibration. Attend our technical presentations or check out our vibration demo at booth #2317!

WOODWARD INC.

3800 North Wislon Ave
Loveland, CO 80538 USA
PH: 970-962-7518
www.woodward.com

2311

Woodward is the Turbomachinery Control Expert, providing outstanding control system, actuation, valve, and safety system technologies for steam turbine, gas turbine, and compressor equipment. Woodward strives to reduce total cost of ownership and improve system performance and reliability by increasing availability, efficiency, start performance, and operating range. Independently owned and publically traded, Woodward provides products, services, support, and upgrades for any OEM's turbomachinery systems.

X

XTEND PACKAGING, INC.

2440

21310 Inverness Forest Blvd.
Houston, TX 77073 USA
PH: 281-784-2262 | FX: 832-827-2176
www.xtendpackaging.com

Intercept Technology products deliver superior, easy-to-use, cost effective, anti-corrosion packaging protection for machinery, spare parts, and finished goods. Intercept prevents corrosion and degradation during lengthy shipping or storage cycles without the use of volatiles, vapors, chemicals or coatings. Developed by Bell Labs, Intercept is green, clean, re-usable and recyclable. Intercept is proven 100% safe for all materials, is available in a variety of styles and sizes, as well as packaging on site for you. Intercept performs around the globe in many applications in the harshest of environments and saves money. Visit us at booth 2044.

Z

ZAHROOF VALVES, INC.

2804

8535 N. Jackrabbit Rd.
Houston, TX 77095 USA
PH: 713-554-2678
www.zahroofvalves.com

Recip Compressor Valves.

ZENITH EQUIPMENT SERVICES, INC.

1536

P. O. Box 34567
Houston, TX 77234 USA
PH: 281-922-4061
www.zenithpumpservices.com

Zenith Pumps Services: Turnkey Equipment Removal, Redesign, and Installation. Zenith Pumps, is a full service rotating and reciprocating equipment repair facility. As an independent service provider, we supply unbiased quality repairs that meets or exceeds Original Equipment Manufacture's offerings. Our core strengths, field experience and engineering expertise allow us to provide the best possible solutions to tough equipment problems.



COLLEGE STATION LAB TOUR

THURSDAY, SEPTEMBER 15, 2022
12:30 P.M. – 6:30 P.M.

12:15 P.M. Meet in front of the gift shop of the Hilton where Transportation will be provided.



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UNIVERSITY



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- Documentation
- Equipment Storage

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- Dynamic Web Scheduling
- Job Info screens
- Job & Activity Logs
- Materials Usage & Requisitions
- GEO Mapping

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- E-sign Delivery & Pickup Slips
- Quick Pos
- Dashboard Charts & Graphs
- Payment Processing
- Job Tracker
- Video Help & Tutorials



Sales Management

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- Activity Scheduling
- Opportunity Tracking
- Pipeline Views
- Live Job Access & History
- Google, O365 Integrations



MARKETER'S MEETUP

For Whom?

TPS symposia and Free Pass delegates.

Thursday: 10:00 a.m.

Turbomachinery Laboratory Booth #2022

Network with your colleagues during the TPS Marketers Meetup.



CATEGORICAL LISTINGS

AFTER-MARKET SERVICES AND PRODUCTS

COMPRESSOR PARTS, REPAIR, OVERHAUL

ACE Compressor Services	2901
Aerzen USA Corporation	2947
Babbitting Service, Inc. (BSI)	2742
Boulden Company	1720
Burckhardt Compression (US) Inc.	1741
Elliott Group	2125
EthosEnergy Field Service	2525
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Hankuk Airro	1336
Hanwha Power Systems	2547
Howden	1327
Kaydon Ring & Seal, Inc.	2143
Kobelco Compressors America, Inc.	2240
Lincoln Electric Additive Solutions	3026
Mayekawa U.S.A., Inc.	2813
Metcar	1523
Mitsubishi Chemical Group	2041
Mitsubishi Heavy Industries	1819
National Compressor Services	3019
Precision Machinery Contractors	2634
Premium Alloys	2323
Revak Keene Turbomachinery, LP	2451
Rotating Machinery Services, Inc.	1527
S.T. Cotter Turbine Services, Inc.	1951
Samco Enterprises	1440
Scott Rotary Seals	3014
Southern States Millwrights	2052

Sullair A Hitachi Group Company	2517
T.F. Hudgins, an Allied Reliability Brand	1627
Technogenia	1742
Texas Compression, LLC	2915

COUPLING REPAIRS

Altra Industrial Motion	1926
FlexElement	2316
Kraft Werks Engineering	1619
Regal Rexnord	2335
Reliable EDM	2818
RENK Group	1726
Shackelford-Wattner	2115

EXPANDER PARTS, REPAIR, OVERHAUL

Elliott Group	2125
Henkel Loctite Corporation	1116
L.A. Turbine	2341
Nikkiso Cryogenic Industry Service	2605
Precision Machinery Contractors	2634
Rotating Machinery Services, Inc.	1527
Rotoflow, An Air Products Business	2719

FIELD SERVICE

ACE Compressor Services	2901
BK Vibro America	2347
Camfil Power Systems	1713
CCC (Compressor Controls Corporation)	1935
Elliott Group	2125
Engineering Dynamics, Inc.	1845
EthosEnergy Field Service	2525
Flender-Graffenstaden	2221

CATEGORICAL LISTINGS

Howden	1327
Ideal Electric Company	1813
Kistler Instrument Corp	2802
Kobelco Compressors America, Inc.	2240
Kraft Werks Engineering	1619
KSB SupremeServ	1135
L.A. Turbine	2341
Mayekawa U.S.A., Inc.	2813
Mitsubishi Heavy Industries	1819
Nidec Industrial Solutions	1605
Nikkiso Cryogenic Industry Service	2605
Philadelphia Gear	2416
Precision Machinery Contractors	2634
PROGNOST Systems Inc	2217
PumpWorks 610	1221
REXA, Inc.	1518
Rotoflow, An Air Products Business	2719
S2W Contracting LLC	1812
Shaft Earthing Solutions	1502
Southwest Research Institute	2626
TechStar	2348
Texas Compression, LLC	2915
Trico Corporation	1747
Trinity Coatings LLC	2715
TSS Turbine Specialty Services	2641

FUEL CONTROL

Continental Controls	2643
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GAS TURBINE PARTS, REPAIR, OVERHAUL

Alpha Laser-US, Inc.	2214
Babbitting Service, Inc. (BSI)	2742
B-W Grinding Service Inc	2119
CTS, Inc.	1501
EthosEnergy Field Service	2525
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Kistler Instrument Corp	2802
Lincoln Electric Additive Solutions	3026
Mitsubishi Chemical Group	2041
MSHS (Formerly Governor Control Systems)	2319
Omega Renk Bearings Pvt. Ltd.	2512
Premium Alloys	2323
Reliable EDM	2818
Revak Keene Turbomachinery, LP	2451
Rotating Machinery Services, Inc.	1527
S.T. Cotter Turbine Services, Inc.	1951
Scott Rotary Seals	3014
Southern States Millwrights	2052
Sparkcognition	1410
Stork H&E Turbo Blading	2220
T.F. Hudgins, an Allied Reliability Brand	1627
Trinity Coatings LLC	2715

GEAR BOX REPAIRS

Compressor & Turbine Services, LLC	2927
EthosEnergy Field Service	2525
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Flender-Graffenstaden	2221
Kraft Werks Engineering	1619

CATEGORICAL LISTINGS

NAMCO Machine & Gear Works Ltd.	2047
Philadelphia Gear	2416
Precision Machinery Contractors	2743
RENK Group	1726
S.T. Cotter Turbine Services, Inc.	1951
T.F. Hudgins, an Allied Reliability Brand	1627
Texas Compression, LLC	2915
TSS Turbine Specialty Services	2641

PUMP PARTS AND REPAIR

A.W. Chesterton Company	2327
Babbitting Service, Inc. (BSI)	2742
Boulden Company	1720
B-W Grinding Service Inc	2119
Celeros Flow Technology	1436
Compressor & Turbine Services, LLC	2927
CTS, Inc.	1501
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Greene Tweed	2516
Hebei Metals & Minerals Corp. Ltd	1034
Henkel Loctite Corporation	1116
ITT Industrial Process	2611
Kennametal	1340
KRAL-USA, Inc.	1334
KSB SupremeServ	1135
Leistritz Advanced Technologies Corp.	1126
LEWA-Nikkiso America, Inc.	1127
Lincoln Electric Additive Solutions	3026
Metcar	1523
Mitsubishi Chemical Group	2041
NETZSCH Pumps North America, LLC	1035

Oerlikon	1125
Omega Renk Bearings Pvt. Ltd.	2512
Precision Machinery Contractors	2634
Premium Alloys	2323
PumpWorks 610	1221
Reliable EDM	2818
ROC Carbon Company	1810
Rotating Equipment Repair	1315
Rotating Machinery Services, Inc.	1527
Rotech Pumps USA Inc	1222
Ruthman Companies Pumps	2050
S.T. Cotter Turbine Services, Inc.	1951
Shanley Pump & Equipment	1026
Southern States Millwrights	2052
T.F. Hudgins, an Allied Reliability Brand	1627
Technogenia	1742
Texas Compression, LLC	2915
Thomas Pump & Machinery	1027
Thordon Bearings Inc.	1711
TSS Turbine Specialty Services	2641

REAPPLICATION SERVICES

BK Vibro America	2347
Kistler Instrument Corp	2802

SPIN TESTING

Interface Inc.	1419
Kistler Instrument Corp	2802
Mitsubishi Heavy Industries	1819

STEAM TURBINE PARTS, REPAIR, OVERHAUL

ACE Compressor Services	2901
Alpha Laser-US, Inc.	2214

CATEGORICAL LISTINGS

Babbling Service, Inc. (BSI)	2742
B-W Grinding Service Inc	2119
Compressor & Turbine Services, LLC	2927
Elliott Group	2125
Lincoln Electric Additive Solutions	3026
Metcar	1523
Mitsubishi Chemical Group	2041
Mitsubishi Heavy Industries	1819
Omega Renk Bearings Pvt. Ltd.	2512
Premium Alloys	2323
Revak Keene Turbomachinery, LP	2451
ROC Carbon Company	1810
Rotating Equipment Repair	1315
Rotating Machinery Services, Inc.	1527
S.T. Cotter Turbine Services, Inc.	1951
Scott Rotary Seals	3014
Southern States Millwrights	2052
Stork H&E Turbo Blading	2220
T.F. Hudgins, an Allied Reliability Brand	1627
Texas Compression, LLC	2915
TSS Turbine Specialty Services	2641

SURFACE FINISHING/BLASTING & EQUIPMENT

Emory Industrial Services	2751
Oerlikon	1125

TANK CLEANING

Hammelmann Corporation	1323
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TURBOCHARGER REPAIR

MSHS (Formerly Governor Control Systems)	2319
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AUXILIARY EQUIPMENT

ACCUMULATORS (PULSATION DAMPENERS)

Engineering Dynamics, Inc.	1845
Kistler Instrument Corp	2802

ACOUSTIC EQUIPMENT (SILENCERS)

Camfil Power Systems	1713
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ACTUATORS

Drake Controls	2541
Peerless PROCORE	2540
REXA, Inc.	1518

ALIGNMENT TOOLS AND EQUIPMENT

Ludeca, Inc.	2627
Pruftechnik	2148
SMP (Specialty Maintenance Products)	1643

BALANCING MACHINES

Compressor & Turbine Services, LLC	2927
Revak Keene Turbomachinery, LP	2451

BEARINGS – FLUID FILM

Babbitting Service, Inc. (BSI)	2742
D&S Engineered Products	2624
Kingsbury, Inc.	2635
Omega Renk Bearings Pvt. Ltd.	2512
Revak Keene Turbomachinery, LP	2451

BEARINGS – ISOLATORS

BK Vibro America	2347
John Crane	1835

BEARINGS – MAGNETIC

CEROBEAR GmbH	1942
SKF Magnetic Mechatronics	2141

CATEGORICAL LISTINGS

BEARINGS – ROLLING-ELEMENT

BK Vibro America	2347
CEROBEAR GmbH	1942
Thordon Bearings Inc.	1711

ROLLING-ELEMENT-PROTECTION

CEROBEAR GmbH	1942
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BEARINGS - TEMPERATURE SENSORS

Poseidon Systems, LLC	1316
Scott Rotary Seals	3014

BEARINGS – THRUST

Boulden Company	1720
CEROBEAR GmbH	1942
D&S Engineered Products	2624
Greene Tweed	2516
Kingsbury, Inc.	2635
Omega Renk Bearings Pvt. Ltd.	2512
ROC Carbon Company	1810
Scott Rotary Seals	3014

BLOWERS

Aerzen USA Corporation	2947
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BORESCOPES

ViewTech Borescopes	2929
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CLUTCHES

Altra Industrial Motion	1926
RENK Group	1726

COMPRESSED AIR DRYERS

Henderson Engineering Co., Inc.	2906
National Compressor Services	3019

COMPRESSORS, AIR

Aerzen USA Corporation	2947
National Compressor Services	3019

CONDITION MONITORING

Kongsberg Maritime Inc.	1401
LUDECA, INC.	2627
Poseidon Systems, LLC	1316
Predicta4	1240
Regal Rexnord	2335
Shaft Earthing Solutions	1502
TechStar	2348
Torquemeters Limited	2735

CONTROL & CONTROL SYSTEMS

Drake Controls	2541
L.A. Turbine	2341
MSHS (Formerly Governor Control Systems)	2319
Voith Turbo	2703

CONTROLS

ACE Compressor Services	2901
Drake Controls	2541
Hebei Metals & Minerals Corp. Ltd	1034
Ideal Electric Company	1813
REXA, Inc.	1518
Sparkcognition	1410
Voith Turbo	2703

CONTROLS – ELECTRIC MOTORS

ABB	2617
e+a	1522
Henkel Loctite Corporation	1116
Nidec Industrial Solutions	1605

CATEGORICAL LISTINGS

COOLERS – INTER

ACE Compressor Services	2901
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COUPLINGS – MECHANICAL

Altra Industrial Motion	1926
Coupling Corporation of America	1434
Field Industries	1843
FlexElement	2316
John Crane	1835
Regal Rexnord	2335
RENK Group	1726
Shackelford-Wattner	2115
Voith Turbo	2703

DATA ACQUISITION

Engineering Dynamics, Inc.	1845
Kongsberg Maritime Inc.	1401
Predicta4	1240
Shaft Earthing Solutions	1502

DRIVERS – ELECTRIC MOTORS

ABB	2617
e+a	1522
Eura Investment Canada Ltd.	2646
Philadelphia Gear	2416
Siemens Large Drives LLC	1421
Voith Turbo	2703

EFFICIENCY IMPROVEMENT FOR GAS TURBINES

Torquemeters Limited	2735
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EXPANSION JOINTS

EagleBurgmann Industries LP	2427
Peerless PROCORE	2540

FASTENERS

Field Industries	1843
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FILTERS & FILTRATION SYSTEMS

Boll Filter Corporation	2441
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Camfil Power Systems	1713
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Flexaseal Engineered Seals and Systems, LLC	1301
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John Crane	1835
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Lube-Power, Inc	1237
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Solberg Oil Mist Eliminators	1503
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FLOW CONTROL DEVICES

Continental Controls	2643
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REXA, Inc.	1518
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FLOW METERS

Continental Controls	2643
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KRAL-USA, Inc.	1334
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Peerless PROCORE	2540
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FLUID DRIVES

Kraft Werks Engineering, LLC	1619
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GASKETS

EagleBurgmann Industries LP	2427
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Henkel Loctite Corporation	1116
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GEARS AND GEAR BOXES

NAMCO Machine & Gear Works Ltd.	2047
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Philadelphia Gear	2416
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RENK Group	1726
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GOVERNORS

Drake Controls	2541
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MSHS (Formerly Governor Control Systems)	2319
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CATEGORICAL LISTINGS

HEAT EXCHANGERS

Emory Industrial Services	2751
Flexaseal Engineered Seals and Systems, LLC	1301
VELO3D	1422

HEAT TRANSFER PRODUCTS & SERVICES

Camfil Power Systems	1713
Cooling Technology Institute	2928

INLET COOLING FOR GAS TURBINES

Camfil Power Systems	1713
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LUBRICATION SYSTEMS

Boll Filter Corporation	2441
EcoTech & CP Pumpen	2919
Flexaseal Engineered Seals and Systems, LLC	1301
Lube-Power, Inc	1237
Poseidon Systems, LLC	1316
Trico Corporation	1747

MAGNETS

Eura Investment Canada Ltd.	2646
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PACKING

EagleBurgmann Industries LP	2427
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POLYMER PARTS & PRODUCTS

Boulden Company	1720
Thordon Bearings Inc.	1711

PRESSURE VESSELS

Boll Filter Corporation	2441
Lube-Power, Inc	1237

SEALS – ANNULAR (LABYRINTH, CARBON)

Boulden Company	1720
Mitsubishi Chemical Group	2041

SEALS – DRY GAS

Boll Filter Corporation	2441
EagleBurgmann Industries LP	2427
John Crane	1835
Kaydon Ring & Seal, Inc.	2143

SEALS – MECHANICAL

A.W. Chesterton Company	2327
EagleBurgmann Industries LP	2427
EcoTech & CP Pumpen	2919
Flexaseal Engineered Seals and Systems, LLC	1301
Metcar	1523
Rotech Pumps USA Inc	1222

SHAFT-CURRENT CONTROL EQUIPMENT

Schunk Carbon Technology LLC	1408
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SHIMS

Ludeca, Inc.	2627
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STARTERS AND STARTING MOTORS

e+a	1522
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THERMOCOUPLES

Kongsberg Maritime Inc.	1401
Peerless PROCORE	2540

TOOLS

SMP (Specialty Maintenance Products)	1643
--------------------------------------	------

TORQUE METERS

Regal Rexnord	2335
Torquemeters Limited	2735

TRANSMISSIONS

NAMCO Machine & Gear Works Ltd.	2047
---------------------------------	------

CATEGORICAL LISTINGS

VACUUM EQUIPMENT

Aerzen USA Corporation	2947
Solberg Oil Mist Eliminators	1503

VALVES

Continental Controls	2643
EcoTech & CP Pumpen	2919
Peerless PROCORE	2540

VARIABLE FREQUENCY DRIVES

ABB	2617
Eura Investment Canada Ltd.	2646
Kraft Werks Engineering	1619
Nidec Industrial Solutions	1605
Siemens Large Drives LLC	1421

VIBRATION MEASURING, MONITORING, ANALYSIS

Connection Technology Center	2803
Emerson	2725
Kongsberg Maritime Inc.	1401
Ludeca, Inc.	2627
Predicta4	1240
Pruftechnik	2148
TechStar	2348

DESIGN AND ANALYSIS SUPPORT

AEROSPACE APPLICATIONS

Concepts NREC	1834
Oerlikon	1125
VELO3D	1422

GAS TURBINES

CCC (Compressor Controls Corporation)	1935
Concepts NREC	1834
Emory Industrial Services	2751
Oerlikon	1125
VELO3D	1422

OIL & GAS PIPING AND SYSTEMS

Hankuk Airro	1336
ITT Industrial Process	2611
PROGNOST Systems Inc	2217
Sparkcognition	1410
Vortex Pipe Systems	2053

PUMPS

Celeros Flow Technology	1436
Emory Industrial Services	2751
GBS Casting	1500
Hebei Metals & Minerals Corp. Ltd	1034
Henkel Loctite Corporation	1116
ITT Industrial Process	2611
KRAL-USA, Inc.	1334
KSB SupremeServ	1135
Leistritz Advanced Technologies Corp.	1126
LEWA-Nikkiso America, Inc.	1127
Oerlikon	1125
Rotech Pumps USA Inc	1222
Ruthman Companies Pumps	2050
Thomas Pump & Machinery	1027
Thordon Bearings Inc.	1711
VELO3D	1422
Vortex Pipe Systems	2053

CATEGORICAL LISTINGS

TURBOMACHINERY

Burckhardt Compression (US) Inc.	1741
CCC (Compressor Controls Corporation)	1935
Concepts NREC	1834
Elliott Group	2125
Hanwha Power Systems	2547
Hydrocarbon Processing	2048
L.A. Turbine	2341
Rotoflow, An Air Products Business	2719
SoftInWay Inc.	1815
Southwest Research Institute	2626
Sparkcognition	1410
TurboTides, Inc.	1749
VELO3D	1422

DISTRIBUTORS

PUMP RELATED EQUIPMENT

Hammelmann Corporation	1323
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PUMPS

EcoTech & CP Pumpen	2919
Hammelmann Corporation	1323
KSB SupremeServ	1135
Leistritz Advanced Technologies Corp.	1126
Nikkiso Cryogenic Industry Service	2605
Rotating Equipment Repair	1315
Thomas Pump & Machinery	1027

EDUCATION/RESEARCH/TRAINING

CONSULTING – MAINTENANCE & RELIABILITY

Becht	2701
CCC (Compressor Controls Corporation)	1935
Engineering Dynamics, Inc.	1845
Henderson Engineering Co., Inc.	2906
KnightHawk Engineering, Inc.	2145
PROGNOST Systems Inc	2217
Shaft Earthing Solutions	1502
Trico Corporation	1747

CONTINUING EDUCATION CREDIT COURSES

Concepts NREC	1834
Hydraulic Institute	1337
Master Builders Solutions	2625
Modern Power Systems	1621
Turbomachinery Laboratory	2022
Vibration Institute	1620

EDUCATIONAL COURSES

HSI	2807
Hydraulic Institute	1337
Modern Power Systems	1621
Trico Corporation	1747
Turbomachinery Laboratory	2022
Vibration Institute	1620

CATEGORICAL LISTINGS

PUMPS/FLUID HANDLING

Hebei Metals & Minerals Corp. Ltd	1034
Hermetic Pumps Inc.	1427
HSI	2807
Hydraulic Institute	1337
Simerics, Inc.	2911
Thomas Pump & Machinery	1027
Turbomachinery Laboratory	2022

TURBINES/ROTATING EQUIPMENT

Burckhardt Compression (US) Inc.	1741
Hankuk Airro	1336
HSI	2807
Hydrocarbon Processing	2048
LUDECA, INC.	2627
Rotating Equipment Repair	1315
Structural Technologies	2913
Turbomachinery Laboratory	2022

FINANCE & OPERATIONS SOFTWARE

FINANCE & OPERATIONS SOFTWARE

ProMRO Cloud ERP by Clients First	2924
Spring Point Solutions	3023

MACHINERY SERVICES

3D SCANNING AND INSPECTION

Stork H&E Turbo Blading	2220
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ALIGNMENT

Pruftechnik	2148
RDI Technologies	2415
S2W Contracting LLC	1812
SMP (Specialty Maintenance Products)	1643

ANALYSIS

Emerson	2725
Engineering Dynamics, Inc.	1845
Mechanical Solutions, Inc.	335
PROGNOST Systems Inc	2217
RDI Technologies	2415

BALANCING

FlexElement	2316
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COMPONENT DEVELOPMENT & TESTING

Southwest Research Institute	1720
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COMPRESSOR PACKAGING

Mayekawa U.S.A., Inc.	2813
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CONDITION MONITORING

Bently Nevada	2835
MachVib Services Corporation	2935
Mechanical Solutions, Inc.	1335
Poseidon Systems, LLC	1316
Pruftechnik	2148

CONTROL SYSTEMS

CCC (Compressor Controls Corporation)	1935
Drake Controls	2541
MSHS (Formerly Governor Control Systems)	2319

DESIGN

NAMCO Machine & Gear Works Ltd.	2047
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CATEGORICAL LISTINGS

EFFICIENCY IMPROVEMENT FOR GAS TURBINES

Voith Turbo	2703
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ELECTRICAL DISCHARGE MACHINING (EDM)

Reliable EDM	2818
--------------	------

FAILURE ANALYSIS

A.W. Chesterton Company	2327
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Bently Nevada	2835
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Shaft Earthing Solutions	1502
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FOUNDATION REPAIR AND GROUTING

S2W Contracting LLC	1812
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Structural Technologies	2913
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GROUTING

Master Builders Solutions	2625
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S2W Contracting LLC	1812
---------------------	------

INSTALLATION

S2W Contracting LLC	1812
---------------------	------

Sparkcognition	1410
----------------	------

Structural Technologies	2913
-------------------------	------

LABORATORY TESTING SERVICES

Trico Corporation	1747
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LUBRICATION SYSTEMS

Lube-Power, Inc	1237
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MACHINE CONDITION MONITORING

A.W. Chesterton Company	2327
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ABB	2617
-----	------

Emerson	2725
---------	------

Hebei Metals & Minerals Corp. Ltd	1034
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MachVib Services Corporation	2935
------------------------------	------

Poseidon Systems, LLC	1316
-----------------------	------

MACHINERY PROTECTION SYSTEMS

Emerson	2725
Kennametal	1340
MachVib Services Corporation	2935

MAINTENANCE SYSTEMS

SMP (Specialty Maintenance Products)	1643
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OIL PURIFICATION

Boll Filter Corporation	2441
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PREDICTIVE MAINTENANCE

Mechanical Solutions, Inc.	1335
RDI Technologies	2415

RESEARCH AND DEVELOPMENT

RDI Technologies, Inc.	2415
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ROTORDYNAMICS ANALYSIS

FlexElement	2316
Mechanical Solutions, Inc.	1335
Southwest Research Institute	2626

VIBRATION ANALYSIS

Emerson	2725
Mechanical Solutions, Inc.	1335
Pruftechnik	2148
RDI Technologies	2415
Southwest Research Institute	2626
TechStar	2348

WELDING

Lube-Power, Inc	1237
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CATEGORICAL LISTINGS

MACHINERY-ANALYSIS SOFTWARE

CFD

Simerics, Inc.	2911
SoftInWay Inc.	1815
TurboTides, Inc.	1749

DATA MANAGEMENT

TurboTides, Inc.	1749
------------------	------

DESIGN AND ANALYSIS

Concepts NREC	1834
Simerics, Inc.	2911
SoftInWay Inc.	1815
TurboTides, Inc.	1749
Vortex Pipe Systems	2053

FINITE ELEMENTS ANALYSIS

SoftInWay Inc.	1815
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INDUSTRIAL DISTRIBUTION

ProMRO Cloud ERP by Clients First	2924
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MAINTENANCE AND RELIABILITY

Bently Nevada	2835
Hydrocarbon Processing	2048
Predicta4	1240
ProMRO Cloud ERP by Clients First	2924

PIPE FLOW ANALYSIS

Applied Flow Technology	1420
Simerics, Inc.	2911
Vortex Pipe Systems	2053

PROCUREMENT

ProMRO Cloud ERP by Clients First	2924
-----------------------------------	------

PUMP SELECTION

Simerics, Inc.	2911
----------------	------

ROTORDYNAMICS

SoftInWay Inc.	1815
----------------	------

TurboTides, Inc.	1749
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STRESS ANALYSIS

Structural Technologies	2913
-------------------------	------

VIBRATION ANALYSIS

Bently Nevada	2835
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Predicta4	1240
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PROGNOST Systems Inc	2217
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Structural Technologies	2913
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MANUFACTURERS

COMPRESSOR – AXIAL

Aikoku Alpha Co.	1623
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COMPRESSOR – CENTRIFUGAL

Aikoku Alpha Co.	1623
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Cincinnati Gearing Systems	2243
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EthosEnergy Field Service	2525
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Hanwha Power Systems	2547
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Howden	1327
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Ingersoll Rand	2435
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Kobelco Compressors America, Inc.	2240
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Sullair A Hitachi Group Company	2517
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CATEGORICAL LISTINGS

COMPRESSOR – INTEGRAL GEAR

Cincinnati Gearing Systems	2243
Kobelco Compressors America, Inc.	2240

COMPRESSOR – RECIPROCATING

Howden	1327
Ingersoll Rand	2435

COMPRESSOR – ROTARY

Burckhardt Compression (US) Inc.	1741
Ingersoll Rand	2435
Mayekawa U.S.A., Inc.	2813
Sullair A Hitachi Group Company	2517

COMPRESSOR – SCREW

Aerzen USA Corporation	2947
Hankuk Airro	1336
Ingersoll Rand	2435
Kobelco Compressors America, Inc.	2240
Mayekawa U.S.A., Inc.	2813
Sullair A Hitachi Group Company	2517

ELECTRIC MOTORS

ABB	2617
e+a	1522
Eura Investment Canada Ltd.	2646
Ideal Electric Company	1813
Nidec Industrial Solutions	1605
WEG	2151

EXPANDERS

Aikoku Alpha Co.	1623
Cincinnati Gearing Systems	2243
L.A. Turbine	2341

Nikkiso Cryogenic Industry Service	2605
Rotoflow, An Air Products Business	2719

GEARS AND GEARBOXES

Cincinnati Gearing Systems	2243
NAMCO Machine & Gear Works Ltd.	2047
Philadelphia Gear	2416
WEG	2151

GENERATORS

e+a	1522
Ideal Electric Company	1813
Nidec Industrial Solutions	1605
Nidec-Kato Engineering	1704
WEG	2151

IMPELLERS

Aikoku Alpha Co.	1623
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MECHANICAL SEAL

A.W. Chesterton Company	2327
John Crane	1835
Rotech Pumps USA Inc	1222

PUMP – CENTRIFUGAL

Celeros Flow Technology	1436
Dickow Pump Company, Inc.	1300
EcoTech & CP Pumpen	2919
Hermetic Pumps Inc.	1427
ITT Industrial Process	2611
Kennametal	1340
LEWA-Nikkiso America, Inc.	1127
Nikkiso Cryogenic Industry Service	2605

CATEGORICAL LISTINGS

PumpWorks 610	1221
Rotech Pumps USA Inc	1222
Roth Pump Company	1217
Ruthman Companies Pumps	2050
Vortex Pipe Systems	2053
PUMP - PILOT-TUBE	
Thomas Pump & Machinery	1027
PUMP - POSITIVE DISPLACEMENT	
Boerger, LLC	1235
Celeros Flow Technology	1436
Hammelman Corporation	1323
KRAL-USA, Inc.	1334
Leistritz Advanced Technologies Corp.	1126
LEWA-Nikkiso America, Inc.	1127
LobePro Rotary Lobe Pumps	1123
NETZSCH Pumps North America, LLC	1035
Roth Pump Company	1217
Shanley Pump & Equipment	1026
PUMP - SEALLESS	
ITT Industrial Process	2611
Leistritz Advanced Technologies Corp.	1126
LEWA-Nikkiso America, Inc.	1127
Roth Pump Company	1217
Ruthman Companies Pumps	2050
PUMP - VERTICAL TURBINE	
PumpWorks 610	1221
Ruthman Companies Pumps	2050

TURBINES – GAS

Aikoku Alpha Co.	1623
Cincinnati Gearing Systems	2243
Continental Controls	2643
Trinity Coatings LLC	2715

TURBINES – OTHER

Stork H&E Turbo Blading	2220
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TURBINES – STEAM

Compressor & Turbine Services, LLC	2927
Howden	1327
Stork H&E Turbo Blading	2220
TSS Turbine Specialty Services	2641
WEG	2151

MANUFACTURING & REPAIR SERVICES

CASTINGS

Alpha Laser-US, Inc.	2214
GBS Casting	1500
Lincoln Electric Additive Solutions	3026
PumpWorks 610	1221

COATINGS

B-W Grinding Service Inc	2119
CTS, Inc.	1501
F.W. Gartner Thermal Spraying & Curtiss-Wright	2601
Kennametal	1340
Schunk Carbon Technology LLC	1408
SIFCO ASC	1311
Technogenia	1742
Trinity Coatings LLC	2715

CATEGORICAL LISTINGS

FORGINGS

Field Industries	1843
------------------	------

GRINDING

B-W Grinding Service Inc	2119
--------------------------	------

CTS, Inc.	1501
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Trinity Coatings LLC	2715
----------------------	------

IMPELLERS

Celeros Flow Technology	1436
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SMP (Specialty Maintenance Products)	1643
--------------------------------------	------

Technogenia	1742
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LASER MACHINING

Alpha Laser-US, Inc.	2214
----------------------	------

SLM Solutions	1403
---------------	------

MACHINING

CTS, Inc.	1501
-----------	------

Custom Engineering Company	2817
----------------------------	------

FlexElement	2316
-------------	------

GBS Casting	1500
-------------	------

Ideal Electric Company	1813
------------------------	------

Rotating Equipment Repair	1315
---------------------------	------

MILLING

Custom Engineering Company	2817
----------------------------	------

GBS Casting	1500
-------------	------

PLATING

SIFCO ASC	1311
-----------	------

WELDING

Alpha Laser-US, Inc.	2214
----------------------	------

Custom Engineering Company	2817
----------------------------	------

MATERIALS

ALLOYS, METAL

Custom Engineering Company	2817
Field Industries	1843
Hankuk Airro	1336
Kennametal	1340
KSB SupremeServ	1135
Premium Alloys	2323
SLM Solutions	1403

CARBON AND CARBON PRODUCTS

Field Industries	1843
Metcar	1523
ROC Carbon Company	1810
Schunk Carbon Technology LLC	1408

CERAMICS

CEROBEAR GmbH	1942
Schunk Carbon Technology LLC	1408

EPOXY GROUT

ITW	2825
Master Builders Solutions	2625

GRAPHITE

ROC Carbon Company	1810
Schunk Carbon Technology LLC	1408

GROUT, CEMENT

Master Builders Solutions	2625
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MAGNETIC MATERIALS

Eura Investment Canada Ltd.	2646
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CATEGORICAL LISTINGS

POLYMERS

Greene Tweed	2516
Thordon Bearings Inc.	1711

SEALANTS

Greene Tweed	2516
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PUBLISHING

BOOKS

Gas Compression Magazine	2724
Hydrocarbon Processing	2048

MAGAZINES/PUBLICATIONS

Cooling Technology Institute	2928
Diesel & Gas Turbine Worldwide	2134
Empowering Pumps & Equipment	1134
Gas Compression Magazine	2724
Hydrocarbon Processing	2048
Modern Power Systems	1621
Palladian Publications	1521
Petroleum Products & Solutions	2920
POWER & Chemical Engineering	1302
Vibration Institute	1620

WEB BASED PUBLICATIONS

Empowering Pumps & Equipment	1134
Gas Compression Magazine	2724
Modern Power Systems	1621
Palladian Publications	1521
Petroleum Products & Solutions	2920
POWER & Chemical Engineering	1302

TRAINING

TRAINING

Becht	2701
Bently Nevada	2835
HSI	2807
Hydraulic Institute	1337
MachVib Services Corporation	2935
Mitsubishi Heavy Industries	1819
Modern Power Systems	1621
POWER & Chemical Engineering	1302
REXA, Inc.	1518
Rotoflow, An Air Products Business	2719
SIFCO ASC	1311
Southern States Millwrights	2052
TechStar	2348
Turbomachinery Laboratory	2022
Vibration Institute	1620

TRAINING MATERIALS

TRAINING MATERIALS

HSI	2807
Hydraulic Institute	1337
POWER & Chemical Engineering	1302
SIFCO ASC	1311
Turbomachinery Laboratory	2022
Vibration Institute	1620

CATEGORICAL LISTINGS

OTHER

Gas Compression Magazine	2724
ProMRO Cloud ERP by Clients First	2924

SES

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www.shaftearthing.com

Shaft Current & Voltage Monitors

FOR NON-HAZARDOUS AREAS

FOR HAZARDOUS AREAS



Remote View and Analysis Software



WELCOME TO THE 51ST TURBOMACHINERY & 38TH PUMP SYMPOSIA!

GENERAL

About the Turbo Lab	General Tab
Staff Directory	173
Faculty	175
TRC Information	177
General Information	179
Advertisers Index	182

ABOUT THE TURBOMACHINERY LAB



The Turbomachinery Lab, a center of the Texas A&M Engineering Experiment Station (TEES), conducts basic and applied research into important problems of reliability and performance of turbomachinery — rotating machinery that extracts or adds energy to fluids. That's everything from the classic Dutch windmill to the space shuttle's main engine turbopumps and compressors that move natural gas through the distribution system.

VISIT
turbolab.tamu.edu

Email
Info@turbo-lab.tamu.edu

Welcome to the 51ST Turbomachinery & 38TH Pump Symposia!



The Turbo Lab, established in 1982, continues to address the needs of users and manufacturers of turbomachinery and pumps. The Turbo Lab continues Texas A&M University's land-grant charter and tradition of attention to industry needs in three areas:

- Basic & Applied Research
- Undergraduate and Graduate Education
- Continuing Education & Professional Development

The Turbo Lab offers graduate engineering coursework through Texas A&M's Department of Mechanical Engineering, and provide continuing education opportunities to users of turbomachinery and pumps all over the world. Opportunities include short courses led by world-renowned researchers and original equipment manufacturers and users, as well as highly-regarded symposia in Houston, Texas, and Southeast Asia.

The Turbo Lab also boasts a unique opportunity for turbomachinery developers and users to find answers to important questions about performance and reliability with the Turbomachinery Research Consortium (TRC).

TURBO LAB

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Welcome to the 51ST Turbomachinery & 38TH Pump Symposia!

ENERGY

Tech Review

Energy Tech Review aggregates the brightest of minds, opinions, analyses, the latest technologies, and the most mind-boggling arguments about the critical issues that exist in the energy sector.



TURBO LAB

FACULTY



DR. ERIC PETERSEN

Turbomachinery Laboratory Director | Mechanical Engineering



DR. DOUGLAS ALLAIRE

Mechanical Engineering



DR. DARA CHILDS

Emeritus Professor, Retired



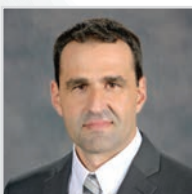
DR. PAUL CIZMAS

Aerospace Engineering



DR. MARCIA COOPER

Mechanical Engineering



DR. ADOLFO DELGADO

Mechanical Engineering



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Mechanical Engineering



DR. SCOTT JACKSON

Aerospace Engineering



DR. WARUNA KULATILAKA

Mechanical Engineering



DR. CHAD MASHUGA

Chemical Engineering

Welcome to the 51ST Turbomachinery & 38TH Pump Symposia!



TURBOMACHINERY LABORATORY

TEXAS A&M ENGINEERING EXPERIMENT STATION



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Mechanical Engineering



DR. ALAN PALAZZOLO

Mechanical Engineering



DR. LUIS SAN ANDRES

Mechanical Engineering



DR. JAMES (CHRIS) THOMAS

Mechanical Engineering



DR. LESLEY WRIGHT

Mechanical Engineering



Join TRC today

The Turbomachinery Research Consortium (TRC) is an exclusive organization of major turbomachinery developers and users who have united with the Turbo Lab to find answers to important questions about turbomachinery performance and reliability through cutting-edge research.

Eric Petersen, Director

Debbie Maggs, Program Manager

Expertise at your fingertips

TRC members have exclusive access to XLTRC2, a suite of high-speed, experimentally verified and user-friendly codes for executing a complete lateral and torsional rotordynamic analysis of rotating machinery, including pumps, compressors and turbines. XLTRC2 is bundled with 25 or more examples of rotordynamic analysis, including rotors for compressors, pumps and gas turbines. Each model features distinctive bearing/seal support conditions and displays unique characteristics of rotordynamic behavior.

Visit us in Booth 2022!

FOR MORE INFORMATION
turbolab.tamu.edu/trc

979-845-7417
trc@turbo-lab.tamu.edu



TRC Members 2022-2023



GENERAL INFORMATION

EXHIBITION

In addition to our technical sessions, we encourage you to join us for our outstanding product show. Our exhibition will provide you the opportunity to engage with world-class technical personnel and view the latest in industry technology and full-sized equipment displays.

The exhibition for paid attendees will take place in Exhibition Halls C, D, and E. The halls will be open during the following times:

- **Tuesday**
Noon – 2 P.M.
- **Wednesday**
Noon – 2 P.M.

FREE PASS HOURS - EXHIBITION

Free Pass registration required.

- **Tuesday**
2:30 P.M. – 7 P.M.
- **Wednesday**
2:30 P.M. – 6:30 P.M.
- **Thursday**
9:30 A.M. – Noon

WELCOME ADDRESS

The welcome address is scheduled for Tuesday, from 8 - 8:35 A.M. in the General Assembly Theatre C in the George R. Brown, Level 3. This year's speaker is Dr. Eric Petersen, Director of the Turbomachinery Laboratory. Admission is free and open to the public.

LUNCHEONS

Badge required, not open to Free Pass

Lunch will be served on Tuesday and Wednesday in Exhibit Hall D. Admission is granted to paid attendees, exhibitors and press. The one-day symposia registration fee includes admission to lunch for that day.

TEX-MEX BUFFET

Badge required, not open to Free Pass

The Tex-Mex Buffet is scheduled for Tuesday, 7:30 P.M. – 9 P.M. in the Hilton Ballroom of the Americas A. Admission is granted to paid attendees, exhibitors, and press.

BANQUET

Badge required, not open to Free Pass

The Banquet is scheduled for Wednesday, 7:30 P.M. – 9 P.M. in the Hilton Ballroom of the Americas A. Admission is granted to paid attendees, exhibitors, and press.

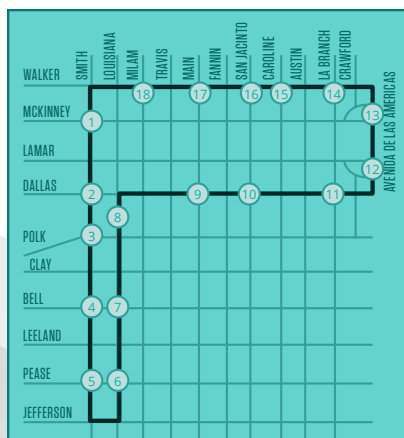
Doors open at 7:15 P.M. No one admitted after 7:45 P.M.

GREENLINK BUSES

Free transportation in Downtown Houston

Seven buses operate in Downtown Houston Monday - Friday, 6:30 A.M. to 6:30 P.M., about 7-10 minutes apart. The route spans 2.5 miles with 18 stops and connects Metro transit stops, the convention corridor, hotels, restaurants, shopping and entertainment.

Greenlink buses stop at popular downtown destinations including GreenStreet, George R. Brown Convention Center, Discovery Green, Main Street Square, City Hall and the Central Library and connects to Metro Park & Ride services and to the Main Street MetroRail line. The buses run on Compressed Natural Gas (CNG), making them a cleaner transportation alternative. Features of the buses include a streamlined, modern design, low-floor access, perimeter seating, high-quality air conditioning, 28-seat capacity, a front-mounted bike rack. Buses are ADA compliant.



SYMPOSIA PROCEEDINGS

The Turbomachinery Laboratory is proud to present the full technical program for this 51st Turbomachinery and 38th Pump Symposium. These Proceedings are included as part of the full and one-day symposium registration fee. To access the Proceedings, see the QR code located on the flyer in your Symposia bag, or visit the registration room for another copy.

CONTINUING EDUCATION

Units/profession development hours
(CEU/PDH)

The CEU/PDH is the nationally recognized unit designed to provide a record of an individual's continuing education achievements. Symposia attendees earn .45 CEUs/4.5 PDHs Tuesday and Wednesday and .3 CEUs/3 PDHs Thursday or 1.2 CEUs/12 PDHs for full symposia. Short Course attendees can earn .6 CEUs/6 PDHs.

In order to receive a CEU/PDH certificate, you must complete and return the appropriate CEU/PDH request form to the Registration Counter during the symposia or via email to the CEU coordinator, debbie@turbo-lab.tamu.edu. A certificate will be prepared and emailed to participants 4-6 weeks after the symposia.

NOTE:

Registration is verified prior to issuing certificate.

GENERAL INFORMATION

COPYRIGHT INFORMATION

All technical sessions are protected by US copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area, except for authorized press.

AMERICANS WITH DISABILITIES

act amendments act of 2008 (ADAAA)

The Texas A&M University System welcomes you to the Turbomachinery & International Pump Users Symposia. If you require an accommodation under the Americans with Disabilities Act (ADA), please contact Jeannie Galindo at jgalindo@turbo-lab.tamu.edu or 979-862-1012 if you are an attendee, or Exhibitor Services at exhibit@turbo-lab.tamu.edu or 979-458-8878 if you are an exhibitor. Early notification is encouraged, and a request two weeks before the event you plan to attend will facilitate the provision of a reasonable accommodation.

CANCELLATION POLICY

Should symposia and/or short course cancellation be necessary, written refund requests (by fax or mail) must be received by the Turbomachinery Laboratory by midnight, August 18, 2022 for refund of registration fees. There will be a \$50.00 USD administrative and banking fee charge to cancel registration. Substitutions are encouraged. We do request that substitutions be made in advance, as substitutions made onsite at the symposia will result in registration delays.

Late cancellations (after the cancellation date) will be reviewed on a case-by-case basis for personal hardships (death, injury, or illness of the attendee or an immediate family member). Refunds may also be extended for natural disasters (hurricanes, etc.) and national emergencies (9/11, etc.).

The TL does not refund for business decisions (after cancellation date) by the attendee's employer such as: job reassignment, plant emergencies, etc. However, we encourage substituting another employee so the attendees' company receives the benefit of training. In the event of a "no-show" cancellation, short-course/Symposium materials will be forwarded to the absent attendee.

The State of Texas does not allow the TL to extend credit to individuals or companies. Therefore, we cannot apply registration fees for a missed course to another subsequent course. The TL reserves the right to cancel any short course or symposia and return all fees in the event of insufficient registration. We reserve the right to cancel due to unforeseen circumstances. The TL will not be responsible for any losses incurred by the registrants, including but not limited to airline cancellation charges or hotel deposits.

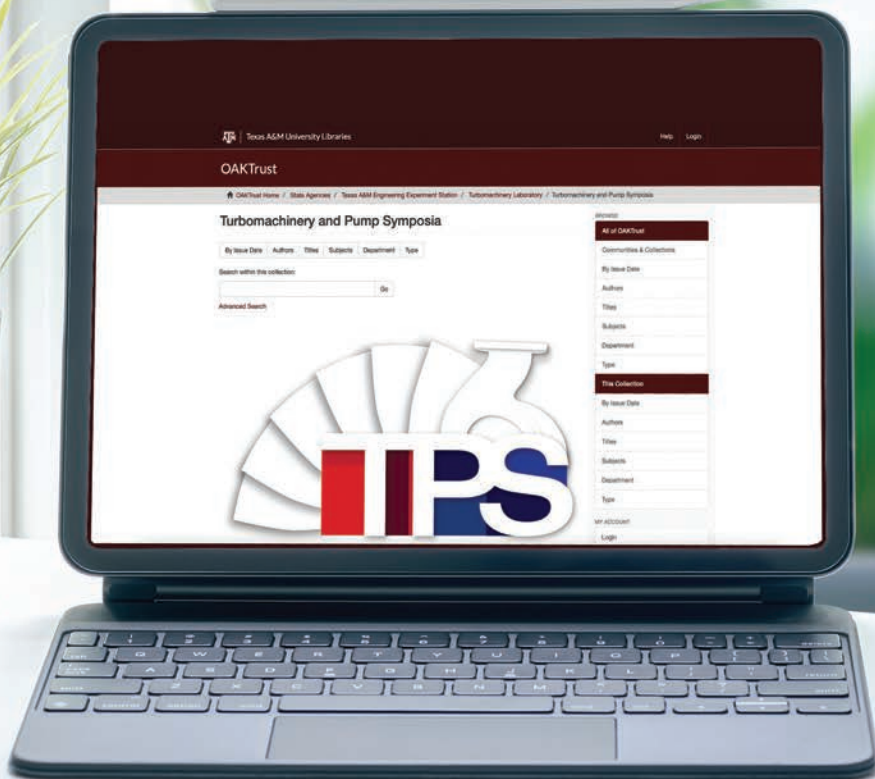
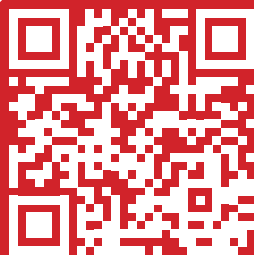
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INDEX

ACCESS INTELLIGENCE	35
AMERICAN GEAR MANUFACTURERS ASSOCIATION	11
BABITTING SERVICES	22
CHEMICAL ENGINEERING	36
CINCINNATI GEARING	Exhibitors Tab
ENERGY TECH REVIEW	174
GAS COMPRESSION	15
KHL GROUP	42
MODERN POWER SYSTEMS	43
PALLADIAN PUBLICATIONS / HYDROCARBON ENGINEERING	21
POWERGEN INTERNATIONAL	184
SHAFT EARTHING SOLUTIONS	171
SPRING POINT SOLUTIONS	137
TURBOMACHINERY INTERNATIONAL	25
TURBO TIDES	41

PROCEEDINGS

FROM ALL PREVIOUS SYMPOSIA ARE
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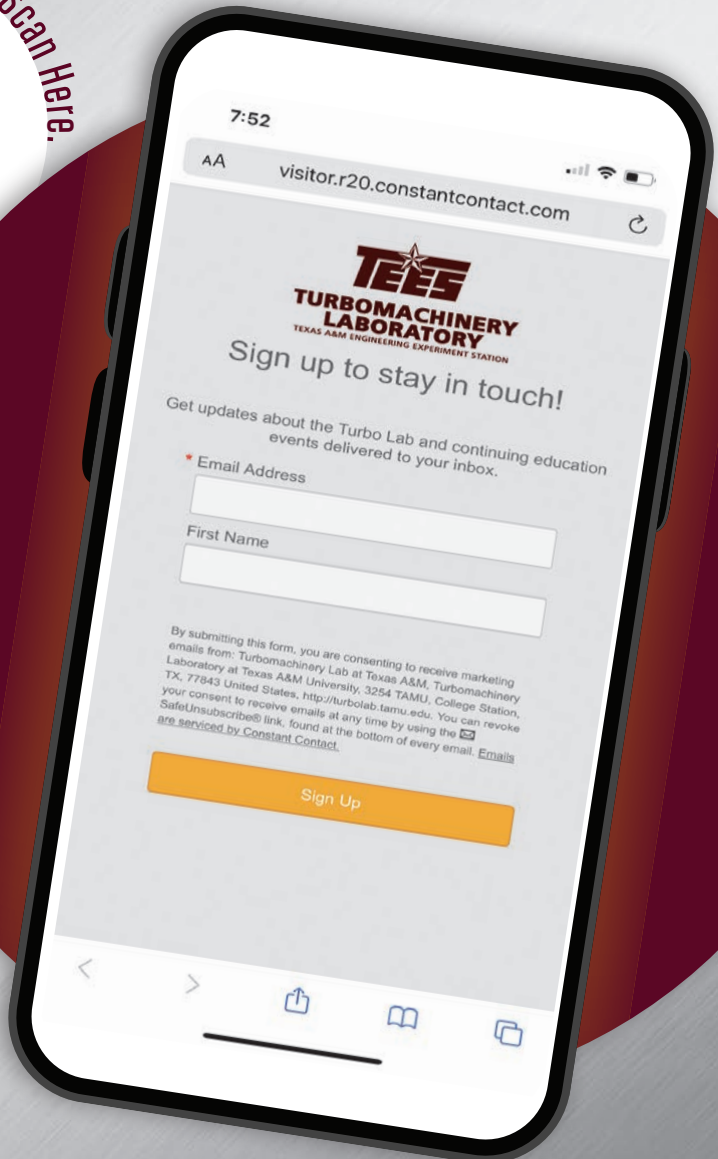


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SAVE THE DATE

52ND TURBOMACHINERY & 39TH PUMP SYMPOSIA

SHORT COURSES: **SEPTEMBER 25, 2023** | SYMPOSIA: **SEPTEMBER 26-28, 2023**

FOR THE INDUSTRY, BY THE INDUSTRY



TPS is a vital industry event, offering a forum for the exchange of ideas between rotating equipment engineers and technicians worldwide. TPS is known for its impact on turbomachinery, pump, oil & gas, petrochemical, power, aerospace, chemical and water industries through its technical program and exhibition.

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51ST TURBOMACHINERY &
38TH PUMP SYMPOSIA

ADDENDUM

2022



HOSPITALITY SUITE

INGERSOLL RAND

Ballroom of Americas A

Monday, Sept 12 from 6:00 p.m. – 10:00 p.m.

INNOVATION PRESENTS STAGE

BURCKHARDT COMPRESSION AND ARKOS FIELD SERVICES

Greg Griggs,

Burckhardt Compression and Arkos Field Services

"From Health Check to Zero Emission"

-

Wednesday, September 14, 2022

3:30 p.m. – 3:50 p.m.

ADDENDUM

EXHIBITING COMPANIES

A

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2820

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www.alabamalaser.com

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Categories: After-Market Services and Products – Pump parts and repair; Machinery Services – Welding; Manufacturing & Repair Services – Laser machining; Manufacturing & Repair Services – Machining; Manufacturing & Repair Services – Welding

B

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2835

Baker Hughes is an energy technology company that provides solutions to energy and industrial customers worldwide. Our Bently Nevada business offers an unparalleled portfolio of hardware and software solutions, enabled by analytic insights, to help organizations improve asset performance and safeguard the health of the machines that matter most. Nexus Controls provides world-class industrial automation, control systems, and safety-system solutions across a wide variety of industrial applications. And our Turbomachinery & Process Solutions portfolio includes Lufkin Gears for reliable power transmission technologies and services. Combined, our innovative technologies and services are taking energy forward - making it safer, cleaner and more efficient for people and the planet.

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2908

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Categories: Auxiliary Equipment – Control & control systems; Auxiliary Equipment – Controls; Auxiliary Equipment – Controls, electric motors; Machinery Services – Industrial Controls; Manufacturers – Electric Motors.



CADENCE

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PH: 408-914-6775

www.cadence.com/en_US/home/tools/system-analysis/computational-fluid-dynamics.html

2925

Computational fluid dynamics (CFD) is an aspect of multiphysics system analysis that undertakes the simulation of the behavior of fluids and their thermodynamic properties using numerical models. In the case of Cadence's robust CFD suite, this includes application areas such as propulsion, aerodynamics, hydrodynamics, and combustion. What makes CFD platforms pivotal is their ability to adapt to specific instances of additional physical phenomena.

Categories: Design and Analysis Support – Aerospace Applications; Design and Analysis Support – Gas Turbines; Design and Analysis Support – Turbomachinery; Machinery-Analysis Software – CFD.



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Five Star Products has engineered time-saving solutions for rapid turn-around of machinery foundation rebuilds, greatly reducing costly downtime. These solutions achieve high early strengths for monolithic or multi-lift foundations with static or dynamic loads, enabling quicker return-to-service times.

Categories: Epoxy grout – Grout, cement



KRMEA (KOREA)

2717

1st floor, Bethel Bldg, Yangjae-dong Seocho-ku
Seoul 06779 SOUTH KOREA
PH: (+)8225796271 | FX: (+)8225796273
www.krmea.or.kr

KRMS is an international symposium for the sharing of relevant information of field experience skills, exchanges of developing technologies, development of skills to produce opportunities to cooperate with attending 'Rotating Machinery' field experts. Over 300 experts of the industry from all corners of the world are expected to converge for the Korea Rotating Machinery Symposium in 2023. The event is renowned for boosting engineering abilities and skills in the field of the rotating machinery industry, making contributions to improve the equipment, operation and maintenance of rotating machinery.

P

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Data acquisition and analytics platform that is simple, secure, and cost effective. We monitor and manage industrial assets to improve maintenance plans, increase the life of the machine, and reduce energy usage.

Categories: Machinery Services – Condition monitoring; Machinery Services – Machine condition monitoring; Machinery Services – Predictive maintenance; Machinery Analysis Software – Life prediction; Machinery Analysis Software – Maintenance and reliability

R

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2743

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SpaceX.com/Careers

1944

SpaceX designs, manufactures and launches advance rockets and spacecraft.

Categories: Machinery Services – Condition monitoring; Machinery Services – Machine condition monitoring; Machinery Services – Predictive maintenance; Machinery Analysis Software – Life prediction; Machinery Analysis Software – Maintenance and reliability

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3024

Wireless vibration and temperature sensors for machinery condition monitoring. Low cost and turn-key setup. Remote analytics and monitoring.

Categories: Machinery – Condition monitoring; Machinery – Predictive maintenance; Machinery – Vibration analysis; Machinery-Analysis Software – Maintenance and reliability; Machinery-Analysis Software – Vibration analysis

Z

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1442

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Categories: Auxiliary Equipment – Vibration measuring, monitoring, analysis; Design and Analysis Support – Pumps; Design and Analysis Support – Turbomachinery; Machinery Services – Analysis; Machinery Services – Vibration Analysis

ASSOCIATION & EVENT PARTNER FOR 2022





THANK YOU

TO OUR WOMEN OF TPS LUNCHEON PANELISTS:

Jane Ploeger,

Head of Technology and Innovation, Siemens Energy

-

"Using Your Role to Lessen Gender Disparity in Engineering"

Charli Matthews,

Founder and CEO, Empowering Pumps and Equipment and Empowering Women in Industry

-

"Embracing your Femininity in a Male-Dominated Workplace"

Elizabeth Bramhall,

Manager General Business Development, Constellation

-

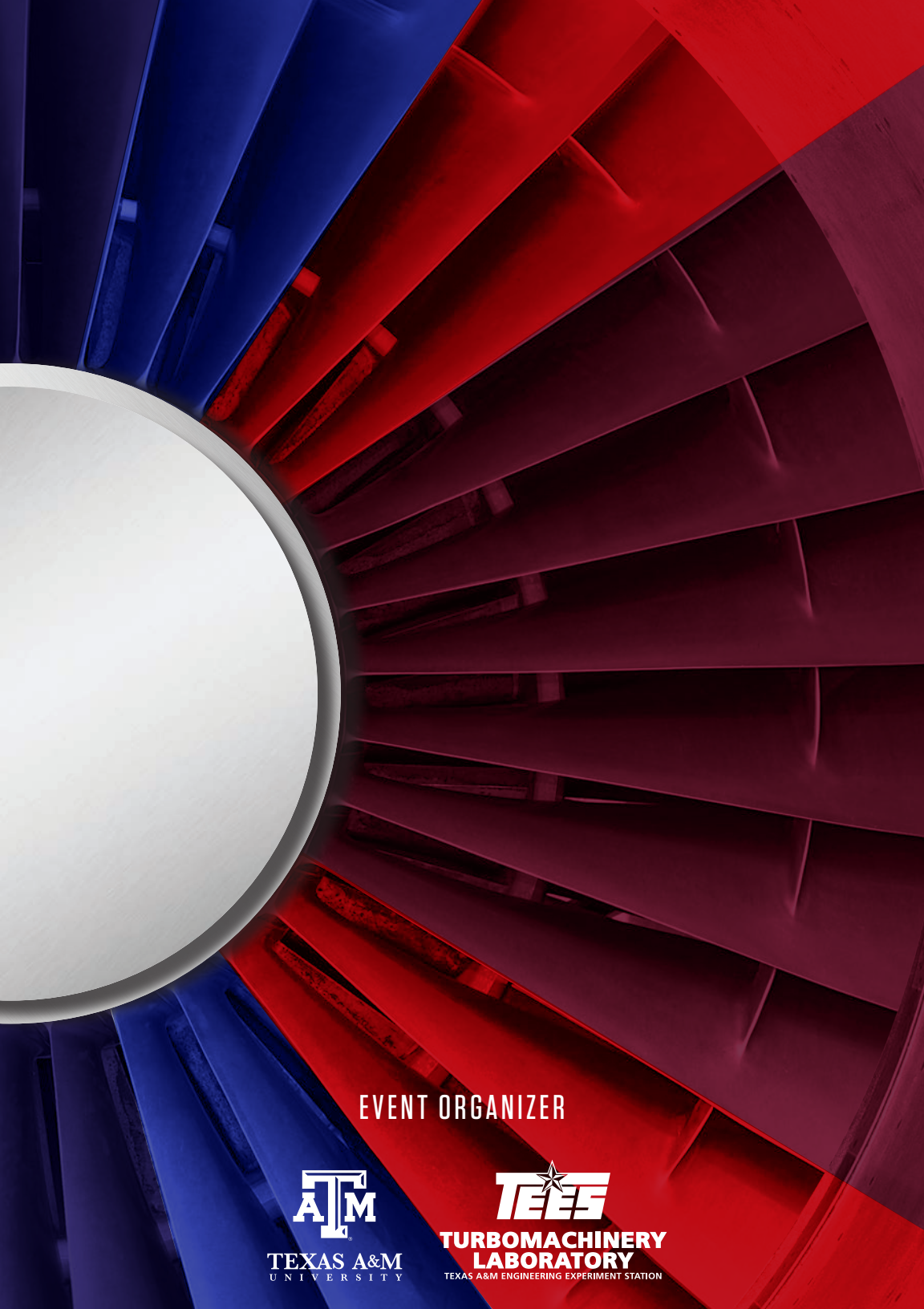
"10 tips from Women working in male-dominated industries"

Sarah Farnand,

Global Business Manager – New Equipment, Air Products

-

"Reimagine what's possible! Increasing female participation in engineering"



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