

# BRINGING CLEANING TO MACHINING:

Practical and Actionable Insights for All Your Manufacturing and Industrial Parts Cleaning Goals

SEPTEMBER 13, 2022 | MCCORMICK PLACE | CHICAGO, ILLINOIS



# PC

**PARTS CLEANING  
CONFERENCE**



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# DEEPER LEARNING, BETTER CLEANING

The Parts Cleaning Conference is your professional, all-in-one resource to prepare you with the most current advancements and nuances in the machine parts cleaning industry. After just one day, you will walk away with a full well of knowledge and usable insight to keep your shop running in pristine condition and thorough regulatory compliance.

## **SPARK A PASSION FOR THE ART OF MACHINE PARTS CLEANING**

The Parts Cleaning Conference opens endless pathways so you will:

- Discover new innovations in products and technologies
- Forge strong relationships and find new partners to expand your supply chain
- Boost your team's education in crucial topics covering broad issues from the fundamentals of cleaning to the environmental rules and regulations happening now and in the future

## **COME FOR THE PARTS CLEANING CONFERENCE, STAY FOR IMTS**

Strategically co-located with the International Manufacturing Technology Show (IMTS), this year's Conference gives you unlimited access to all the benefits of attending the largest manufacturing trade event on our side of the world.

Looking specifically for companies involved directly in cleaning? You will find an impressive variety of cleaning industry exhibitors in the IMTS Machining Components/Cleaning/Environmental Pavilion, located on level 2 in the East Hall.

Your Conference registration also includes entry into the massive IMTS exhibit halls where you will see the latest advancements in traditional and digital manufacturing, and more than 15,000 new machining technologies and cutting-edge processes to help you solve manufacturing challenges and improve efficiencies. Organized into nine pavilions showcasing more than 2,000 booths, IMTS is the premier manufacturing community gathering to source technology and find inspiration.

### **SCHEDULE AT-A-GLANCE**

**Tuesday, September 13, 2022**

**9:00 – 9:15 a.m.**

Parts Cleaning Conference Check-In  
Grab & Go Breakfast  
Room 353b

**9:15 – 10:15 a.m.**

Concurrent Sessions  
Rooms 350 and 353b

**10:15 – 10:30 a.m.**

Refreshment Break  
Rooms 350 and 353b

**10:30 – 11:45 a.m.**

Concurrent Sessions  
Rooms 350 and 353b

**12:00 – 1:15 p.m.**

Networking Lunch  
Room 353b

**1:15 – 2:15 p.m.**

Concurrent Sessions  
Rooms 350 and 353b

**2:15 – 2:30 p.m.**

Refreshment Break  
Rooms 350 and 353b

**2:30 – 3:45 p.m.**

Concurrent Sessions  
Rooms 350 and 353b

**4:00 – 5:30 p.m.**

The Parts Cleaning Conference  
Reception

Lakeside Terrace (Outside Room 353b)

# CONFERENCE SCHEDULE OVERVIEW

TUESDAY, SEPTEMBER 13, 2022

9:00 a.m. – 5:30 p.m.

## SOLVENTS & CHEMISTRY TRACK TECHNOLOGY & PROCESS TRACK

ROOM 353B

## ANALYSIS & SPECIAL APPLICATIONS TRACK CHALLENGING SUBSTRATES TRACK

ROOM 350

|            |                                                                                                                                                                                    |                                                                                                                                                               |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 a.m.  | GRAB & GO BREAKFAST<br>ROOM 353B   INCLUDED IN CONFERENCE REGISTRATION                                                                                                             |                                                                                                                                                               |
| 9:00 a.m.  | OPENING STATEMENTS<br>LORI BECKMAN, PRODUCTION MACHINING                                                                                                                           | OPENING STATEMENTS<br>DARREN WILLIAMS, CLEANING RESEARCH GROUP LEADER, SHSU                                                                                   |
| 9:15 a.m.  | HOW TO TEST NEW CLEANING AGENTS<br>ED KANEGBERG, BFK SOLUTIONS                                                                                                                     | OPTIMIZING YOUR CLEANLINESS ANALYSIS WITH OPTICAL & SEM/EDS CORRELATION<br>PETER FEAMSTER, JOMESA NORTH AMERICA                                               |
| 9:45 a.m.  | POST MACHINING CLEANING –<br>HOW TO PICK THE RIGHT SURFACTANT FOR THE JOB<br>STEPHANIE COLE, CLARIANT                                                                              | THE CLEANLINESS OF PARTS & COMPONENTS OF FLUID SYSTEMS IN AUTOMOTIVE,<br>HYDRAULICS & AEROSPACE COMPLYING WITH ISO16232 & ISO18413<br>ERIC KRAUSE, PALL CORP. |
| 10:15 a.m. | REFRESHMENT BREAK<br>ROOM 353B & ROOM 350                                                                                                                                          |                                                                                                                                                               |
| 10:30 a.m. | PRECISION CLEANING WITH BI-SOLVENTS &<br>CO-SOLVENTS IN VAPOR DEGREASING SYSTEMS<br>YANGSHENG ZHANG, BRULIN                                                                        | PART CLEANING ON THE SHOP FLOOR<br>JOHN KANE, WYVERN INDUSTRIAL TECHNOLOGY                                                                                    |
| 11:00 a.m. | ON-SITE SOLVENT RECYCLING TO KAPTURE THE SAVINGS<br>ERIC BROMELY, KYZEN                                                                                                            | VOCATIONAL TRAINING FOR INDUSTRIAL PARTS CLEANING<br>CONNECTED WITH APPLIED RESEARCH – A NEW QUALITY LEVEL<br>FRANK-HOLM ROEGNER, FRAUNHOFER-FEP              |
| 11:30 a.m. | SOLVENTS & CHEMISTRY Q&A                                                                                                                                                           | ANALYSIS & SPECIAL APPLICATIONS Q&A                                                                                                                           |
| 12:00 p.m. | NETWORKING LUNCH<br>ROOM 353B   INCLUDED IN CONFERENCE REGISTRATION                                                                                                                |                                                                                                                                                               |
| 1:15 p.m.  | STANDARDS AND METHODS FOR PLANNING HIGH PURITY PROCESSES<br>GERHARD KOBLENZER, LPW                                                                                                 | MAINTAINING A PROPER ULTRASONIC CLEANING LINE PROCESS<br>ALEJANDRO LARA, NGL AMERICA, INC.                                                                    |
| 1:45 p.m.  | CLEANING ACTION FOR PRODUCTIVE MANUFACTURING<br>BARB KANEGBERG, BFK SOLUTIONS                                                                                                      | EFFICIENT CLEANING OF CUTTING TOOLS IN DIFFERENT STAGES OF PRODUCTION<br>SANDRO SIMINOVICH, ECOCLEAN                                                          |
| 2:15 p.m.  | REFRESHMENT BREAK<br>ROOM 353B & ROOM 350                                                                                                                                          |                                                                                                                                                               |
| 2:30 p.m.  | MAINTAINING AQUEOUS CLEANERS –<br>BENEFITS & PITFALLS OF COMMON TECHNIQUES<br>JOSEPH BECKLEY, NORTHERN TECHNOLOGIES INTL.                                                          | OVERCOMING THE CHALLENGES OF CLEANING & PREPARING ALUMINUM ALLOYS<br>MIKE VALENTI, HUBBARD HALL                                                               |
| 3:00 p.m.  | CO <sub>2</sub> -BASED CLEANING TECHNOLOGIES – INNOVATIVE APPLICATIONS FOR<br>RESIDUE REMOVAL & PRECISION CLEANING OF CRITICAL COMPONENTS<br>NELSON SORBO, COOL CLEAN TECHNOLOGIES | 3D CLEANING – THE FUTURE OF PART MANUFACTURING IS HERE<br>SCOTT CAIN, KYZEN                                                                                   |
| 3:30 p.m.  | TECHNOLOGY & PROCESS Q&A                                                                                                                                                           | CHALLENGING SUBSTRATES Q&A                                                                                                                                    |
| 4:00 p.m.  | RECEPTION<br>LAKESIDE TERRACE, EAST HALL                                                                                                                                           |                                                                                                                                                               |

All Sessions and Speakers are subject to change



# FULL CONFERENCE EDUCATIONAL PROGRAM

## **SOLVENTS & CHEMISTRY TRACK | ROOM 353B**

### **HOW TO TEST NEW CLEANING AGENTS**

**9:15 a.m. | Ed Kanegsberg, BFK Solutions**

Parts manufacturers are considering a move to alternative cleaning agents. Many new cleaning agents and cleaning techniques are on the market; they all claim to revolutionize cleaning. Which are right for your application? Attendees will learn how to efficiently assess a wide variety of cleaning agent options and solvents including HCFQ, modified alcohols and aqueous. We will also discuss when manufacturers can test cleaning agents, when it is unwise (even unsafe), and how to get the most out of testing.

### **POST MACHINING CLEANING — HOW TO PICK THE RIGHT SURFACTANT FOR THE JOB**

**9:45 a.m. | Stephanie Cole, Clariant**

With the hundreds of available surfactants on the market to incorporate into a metal cleaning formulation, the task of picking the correct surfactant can be daunting. Determining whether your formulation requires emulsification or rejection of foreign oil is critical for selecting the proper surfactant in a cleaning formulation. Understanding surfactant performance with various soil types, metal types and pH stability will help the end-user achieve their desired cleanliness. This presentation will define trends associated with different surfactant chemistries and how to apply this theory to developing a cleaning formulation.

### **PRECISION CLEANING WITH BI-SOLVENTS & CO-SOLVENTS IN VAPOR DEGREASING SYSTEMS**

**10:30 a.m. | Yangsheng Zhang, Brulin**

Bi-solvent and co-solvent vapor degreasing expand the realm of possibilities beyond the single-solvent degreasing. They offer practical solutions to clean heavy soils, flux or wax that may not be effective with single-solvent chemistry, to meet the evolving environmental standards. This presentation will discuss the bi-solvent and co-solvent processes, choice of solvents, equipment conversion, benefits, and limitations to help users make informed decisions.

### **ON-SITE SOLVENT RECYCLING TO CAPTURE THE SAVINGS**

**11:00 a.m. | Eric Bromely, KYZEN**

With the pressure to eliminate solvents used for open-top degreasers, the need to offset the higher costs of today's alternatives have become even more important. The capability to recycle the solvents directly from the process chamber into a standalone distillation system and then return the clean solvent back to the chamber has proven to be an excellent way to maintain a cleaner fluid. This solvent recycling process results in benefits including extended bath life, improved parts cleaning, reduced operational costs and environmental responsibility through technology.

## **ANALYSIS & SPECIAL APPLICATIONS TRACK | ROOM 350**

### **OPTIMIZING YOUR CLEANLINESS ANALYSIS WITH OPTICAL & SEM/EDS CORRELATION**

**9:15 a.m. | Peter Feamster, JOMESA North America**

There are varying challenges that exist with standardized optical analysis and SEM/EDX analysis in determining particle cleanliness and contamination sources, as well as the automated solutions that are available to address them.

Topics include:

- Examples and demonstrations of common microscope analysis problems which can compromise accuracy.
- Alternative microscope analysis methods that can be used to capture specific contamination data automatically.

### **THE CLEANLINESS OF PARTS AND COMPONENTS OF FLUID SYSTEMS IN AUTOMOTIVE, HYDRAULICS & AEROSPACE COMPLYING WITH ISO16232 & ISO18413**

**9:45 a.m. | Eric Krause, Pall Corp.**

In order to improve the life and reliability of fluid components used in the automotive, hydraulics and aerospace industries, the cleanliness of the system parts and components before their assembly must be addressed. The measurement of components and parts cleanliness is related to contaminant collection, analysis and data reporting with ISO standards continually being developed to control procedures. This presentation explains the processes in these standards and how similar procedures have been adapted to suit the requirements in these industries.

### **PARTS CLEANING ON THE SHOP FLOOR**

**10:30 a.m. | John Kane, Wyvern Industrial Technology**

In industrial environments, a frequently asked question is whether a part surface is sufficiently clean for subsequent processing or not. Different manual methods with subjective evaluation are used for cleanliness inspection and process control. The SITA mobile measuring devices offer an alternative solution. By measuring the fluorescence excited by a UV light source, residual contamination such as oil and grease can be determined. In this presentation, the measuring method is explained and application examples are introduced.

### **VOCATIONAL TRAINING FOR INDUSTRIAL PARTS CLEANING CONNECTED WITH APPLIED RESEARCH — A NEW QUALITY LEVEL**

**11:00 a.m. | Frank-Holm Roegner, Fraunhofer-FEP**

Fraunhofer Gesellschaft is an expert in parts cleaning applied research, cleaning technologies and analysis for particles and filmic contaminations. Through research, it became increasingly clear that many cleaning errors and economically unfavorable processes are due to a lack of user knowledge. This session looks at how to train competent contact persons and eliminate the high risk of not being able to meet the expanding production cleaning requirements.



## TECHNOLOGY & PROCESS TRACK | ROOM 353B

### STANDARDS & METHODS FOR PLANNING HIGH PURITY PROCESSES

**1:15 p.m. | Gerhard Koblenzer, LPW**

Industrial production is changing in almost all sectors, and with them the requirements for the technical cleanliness levels of the production processes itself. An ultra-fine cleaning process alone is not sufficient. This can only be the quality gate from the pre-process to the subsequent process. Completely different questions need to be answered: How do I plan the requirements for technical cleanliness in the individual operations? How do I set up process monitoring? How do I reduce the net cleaning task for the actual cleaning process? What requirements do I have to place on the follow-up processes? Who can help me with this task? This presentation will help with these questions.

### CLEANING ACTION FOR PRODUCTIVE MANUFACTURING

**1:45 p.m. | Barb Kanegsberg, BFK Solutions**

Attendees will gain a comprehensive understanding of the many options for physical cleaning action, both physical force and strategic parts movement. Choosing the wrong cleaning action or an inappropriate combination of cleaning actions can lead to lengthy process times or even part defects. Cleaning action will be discussed in the context of processes involving liquid, solid and gas. The program will include descriptions, comparison and experimental results. Examples of techniques include blast, eduction, boiling and ultrasonics. By understanding how to best use cleaning action, attendees will gain the tools to improve the effectiveness of current cleaning processes and to make wise investments in capital equipment for new cleaning processes.

### MAINTAINING AQUEOUS CLEANERS — BENEFITS & PITFALLS OF COMMON TECHNIQUES

**2:30 p.m. | Joseph Beckley, Northern Technologies Intl.**

Aqueous cleaners are commonplace in the metal working and finishing industry. This study will investigate basic field techniques for maintaining aqueous cleaners and rust inhibitors such as pH, conductivity/total dissolved solids (TDS), brix/solids, titrations, oil splitting and surface tension. It will focus on the basics of how they work, while also examining some pitfalls associated with each of these techniques. Lastly, it will look at how these techniques can be used to help determine bath life.

### CO<sub>2</sub>-BASED CLEANING TECHNOLOGIES — INNOVATIVE APPLICATIONS FOR RESIDUE REMOVAL & PRECISION CLEANING OF CRITICAL COMPONENTS

**3:00 p.m. | Nelson Sorbo, Cool Clean Technologies**

CO<sub>2</sub>-based cleaning and extraction technologies have been used to clean a wide variety of substrates and components which benefit from a dry, environmentally friendly, and cost-effective cleaning alternative. Key take-aways from this presentation will be:

- 1) Fundamental concepts of CO<sub>2</sub> based technologies
- 2) Understanding of different types: CO<sub>2</sub> spray technologies, CO<sub>2</sub> pellet blast technologies, and an understanding of the differences / benefits / drawbacks of each
- 3) Principles of dense phase CO<sub>2</sub> cleaning and extraction - benefits and drawbacks
- 4) Review of key applications of each technology
- 5) Summary of operational costs for each technology

Comprehensive session descriptions can be found online at [parts2cleaningevent.com/agenda](https://parts2cleaningevent.com/agenda).

## CHALLENGING SUBSTRATES TRACK | ROOM 350

### MAINTAINING A PROPER ULTRASONIC CLEANING LINE PROCESS

**1:15 p.m. | Alejandro Lara, NGL America, Inc.**

Maintaining an adequate ultrasonic cleaning line process is a significant factor in manufacturing operations. Factors that affect the final cleaning result may come from chemical, mechanical or quality of water. Choosing the appropriate cleaning chemical and adjusting the correct concentration, temperature and time parameters are critical. Checking that an adequate amount of ultrasonic power being produced from the transducers is satisfactory and can be measured using a hydrophone to ensure sufficient cavitation. Measuring the conductivity of water in the process can also help determine if there is a potential problem coming from the water quality. Confirming that all three key factors are up to standard can help save time, money and headaches.

### EFFICIENT CLEANING OF CUTTING TOOLS IN DIFFERENT STAGES OF PRODUCTION

**1:45 p.m. | Sandro Siminovich, Ecoclean**

The manufacturing of cutting tools is not simple and involves different processes such as grinding, blasting, polishing and PVD/CVD coating. Cleaning in different stages plays a critical role, and any oversight can result in a cutting tool that is sub-par. This session will cover several scenarios throughout the manufacturing of cutting tools with examples of different solutions. Attendees will leave with a good understanding of when to use one method versus another and a clear vision of potential pitfalls to be avoided to ensure that cleaning processes contribute to cost reduction.

### OVERCOMING THE CHALLENGES OF CLEANING & PREPARING ALUMINUM ALLOYS

**2:30 p.m. | Mike Valenti, Hubbard Hall**

Cleaning aluminum is very different and more challenging than cleaning other metals due to its unique properties and sensitivity to chemicals. This presentation covers the basic principles that make aluminum unique, cleaners that remove stubborn contaminants and case studies on how to reduce the cost, complexity and chemical consumption of cleaning aluminum. Learn how the application determines best cleaning process, how different aluminum alloys react during cleaning, how to identify the contaminant you are trying to remove, why over-etching aluminum can be a concern, and ways to improve cleaning and surface prep process to reduce cycle times.

### 3D CLEANING — THE FUTURE OF PARTS MANUFACTURING IS HERE

**3:00 p.m. | Scott Cain, Kyzen**

For many of the industries using this technology, 3D printing enables the ability to have a clean part with no excess materials. Now parts are being printed that need to meet the same cleanliness specifications and expectations of their machined counterparts. This presentation will provide a comprehensive overview of 3D printing, including the practices being used in 3D printing cleaning, including the machines, chemistry and processes; the most common materials applied in 3D printing and their cleaning challenges; market trends for 3D printing and cleaning; options for machines and how to determine the best for an application; and a glimpse of where the 3D industry is heading.

The 2022 Parts Cleaning Conference Program is curated and presented by the leading media and association authorities in manufacturing and industrial parts cleaning:



# PC

## PARTS CLEANING CONFERENCE

AT  **IMTS**

### HOTEL ACCOMMODATIONS

To take advantage of the outstanding discounts that result from IMTS 2022's buying power, all housing arrangements for the co-located Parts Cleaning Conference are handled through IMTS's partner, **Global Housing Solutions**, powered by AMT.



Learn more by visiting  
**[imts.com/show/travel/](https://imts.com/show/travel/)**  
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Global Housing Solutions, powered by AMT is the only housing provider for the event for all participants. If you have any questions, please email **[housing@AMTonline.org](mailto:housing@AMTonline.org)** or call **800-957-7714**.

IMTS is confident that Global Housing Solutions, powered by AMT will ensure a positive booking experience for IMTS 2022 and the Parts Cleaning Conference guests.

# HOTEL & TRAVEL



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INTERNATIONAL MANUFACTURING TECHNOLOGY SHOW  
SEPTEMBER 12 - 17, 2022 • MCCORMICK PLACE • CHICAGO

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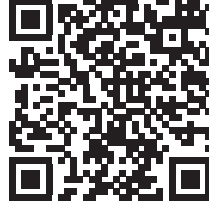
Note: IMTS 2022 utilizes the entire McCormick Place facility.

The Parts Cleaning Conference Venue:

**McCormick Place East Hall / Lakeside Center**

**Rooms 350 and 353b**

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# YOUR CONFERENCE REGISTRATION

Your Parts Cleaning Conference Registration Includes:

- Access to the Parts Cleaning Conference educational sessions plus all speaker presentation materials after the event
- The breakfast, two refreshment breaks, networking lunch and evening reception
- Entry into all IMTS 2022 exhibit halls

## EARLY-BIRD RATE:

# \$595

Discount valid through August 12, 2022

## STANDARD RATE:

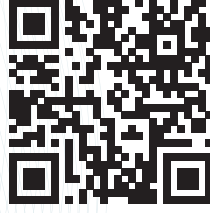
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SCAN NOW TO SECURE YOUR SPOT! ▶



## SPECIAL ASSISTANCE

If you have special considerations that we can help with to make your Parts Cleaning Conference experience more pleasant, please complete the designated space on your registration form.

## NO SMOKING POLICY

McCormick Place is a non-smoking facility.  
Thank you for your cooperation.

## PICTURE TAKING

You must have press/media credentials or prior written permission from the Parts Cleaning Conference management team to take photographs or videos in the IMTS exhibit halls. The Parts Cleaning Conference team may take photographs or videos during the Conference sessions and/or networking events to use in future promotional materials.

## HEALTH & SAFETY

The Parts Cleaning Conference management team abides by all current federal and local recommendations and guidance regarding COVID-19 protocols. Please visit the CDC website for the most accurate and timely information.

## QUESTIONS? GET IN TOUCH!

**Tori Schneller, Conference Manager**  
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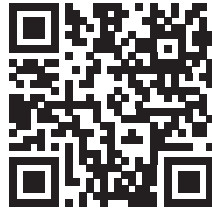
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