

# AMERICAN GLOVEBOX SOCIETY VIRTUAL CONFERENCE



**AGS**  
American Glovebox Society

## Glovebox Design Then vs Now

AGS Glovebox & Isolator Annual Conference & Trade Show



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## FUNDAMENTALS, MATERIALS, HOT TOPICS & LESSONS LEARNED

### JULY 26, AUGUST 2, AUGUST 9



# VIRTUAL CONFERENCE FAQs

## Virtual Conference - How Does it Work?

Conference sessions will be held via Zoom webinar platform. Prior to the conference, you will receive an email providing you access to the conference app. The conference app can be accessed via a computer or downloaded as an app on your phone or tablet (or both!). The conference app is where the virtual conference will be organized. In the app, you will find the conference agenda and the Zoom registration links for each session. Additionally, you will find a Chat Room, Directory of Sponsors, Attendee List, and more! The app will be your one-stop shop to access the virtual conference. As we get closer to the event, we will release short video tutorials with easy step-by-step instructions. **NOTE: ALL TIMES LISTED IN THIS PROGRAM ARE PACIFIC TIME.**

## Will I be Allowed to Ask Questions?

Absolutely! We encourage you to interact with the speaker during the live presentations. A Q&A panel will be used to ask questions throughout the presentation. Each session will have a moderator and their job is to watch for questions.

## Will the Sessions be Recorded?

Yes, with the exception of the Glovebox Fundamentals Workshop, the conference sessions will be recorded. If you miss a session during the conference or want to re-watch a session, you can view the recording at your convenience. Recordings will be made available on a complimentary basis to all conference attendees through December 31, 2021.

## What About Continuing Education?

The virtual system tracks your time in session. If you require a certificate of attendance, email [ags@gloveboxsociety.org](mailto:ags@gloveboxsociety.org) and we would be happy to create your certificate. We are unable to monitor time reviewing recordings, so verification cannot be provided for watching recordings.

**For updated Conference information, please visit our website:**

**[GloveBoxSociety.org](https://GloveBoxSociety.org)**

# GOLD SPONSOR



## Detectable Hole Size for Validation of Glove Integrity Test System: How Should it be Determined?



There are many factors that go into what hole size is detectable by a glove pressure decay leak test, time being one of the most critical. Glove material, glove thickness, allowable leak test time, pressure used for the measurement, and other variables all come into play.

Since there is no regulatory guidance on what hole size your system must be validated to detect, the first thing you should determine is what is the longest time you can spend leak testing gloves on your containment without adversely affecting your production. A good rule of thumb is to determine the smallest hole size your glove testing system can confidently detect within your allowable time frame. The smaller the hole you

want to be able to detect, the longer the time it will take to detect it with good confidence in the results.

The Glove Integrity Testing System (GITS) experts at MK can help to scientifically determine your smallest detectable hole size within your time requirements. In some cases, you may have to change the material or thickness of the glove you use in order to confidently detect the hole size you choose within your acceptable time frame. There are different options you can choose to meet the needs, just be sure you understand why your choices make sense, in case you have to explain them to a regulator.

Be confident in your GITS system choices by working with the experts at MK MetalFree Corp.

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Steve Chunglo • U.S. Operations Manager  
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[steve.chunglo@mk-metalfree.com](mailto:steve.chunglo@mk-metalfree.com)

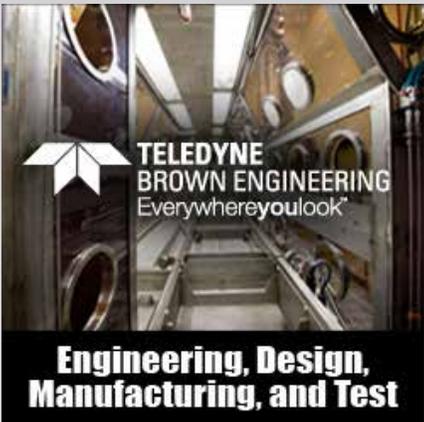
# JULY 26th - FUNDAMENTAL TRAINING

## PRELIMINARY CONFERENCE AGENDA

### SPONSORS



**MERRICK**<sup>®</sup>



8:30 AM - 10:40 AM

#### SESSION 1

**SPONSORED BY: MERRICK & COMPANY**

##### INTRODUCTION & THEORY OF CONTAINMENT

*John Newman, PE, MBraun*

##### MERRICK & COMPANY: AN OVERVIEW

*Tony Wampler, Merrick & Company*

##### DESIGN

*Greg Wunderlich, PE, Amentum*

10:40 AM - 10:50 AM

#### BREAK

10:50 AM - 1:00 PM

#### SESSION 2

**SPONSORED BY: PREMIER TECHNOLOGY, INC.**

##### FABRICATION

*Kevin Oliver, Springs ATG*

##### PREMIER TECHNOLOGY, INC.: AN OVERVIEW

*John Davis, Premier Technology, Inc.*

##### ERGONOMICS

*Rebecca Wantuck, LANL*

1:00 PM - 1:45 PM

#### BREAK

1:45 PM - 3:40 PM

#### SESSION 3

**SPONSORED BY: TELEDYNE BROWN ENGINEERING**

##### INSTALLATION & OPERATION

*Craig Dees, INL*

##### TELEDYNE BROWN ENGINEERING: AN OVERVIEW

*Paul Johnson, Teledyne Brown Engineering*

##### PROCUREMENT

*Joe McVeigh, ORNL*

3:40 PM - 3:50 PM

#### BREAK

3:50 PM - 5:00 PM

#### HANDS-ON DEMONSTRATION & CONCLUSION

*Teams from INL and LANL*

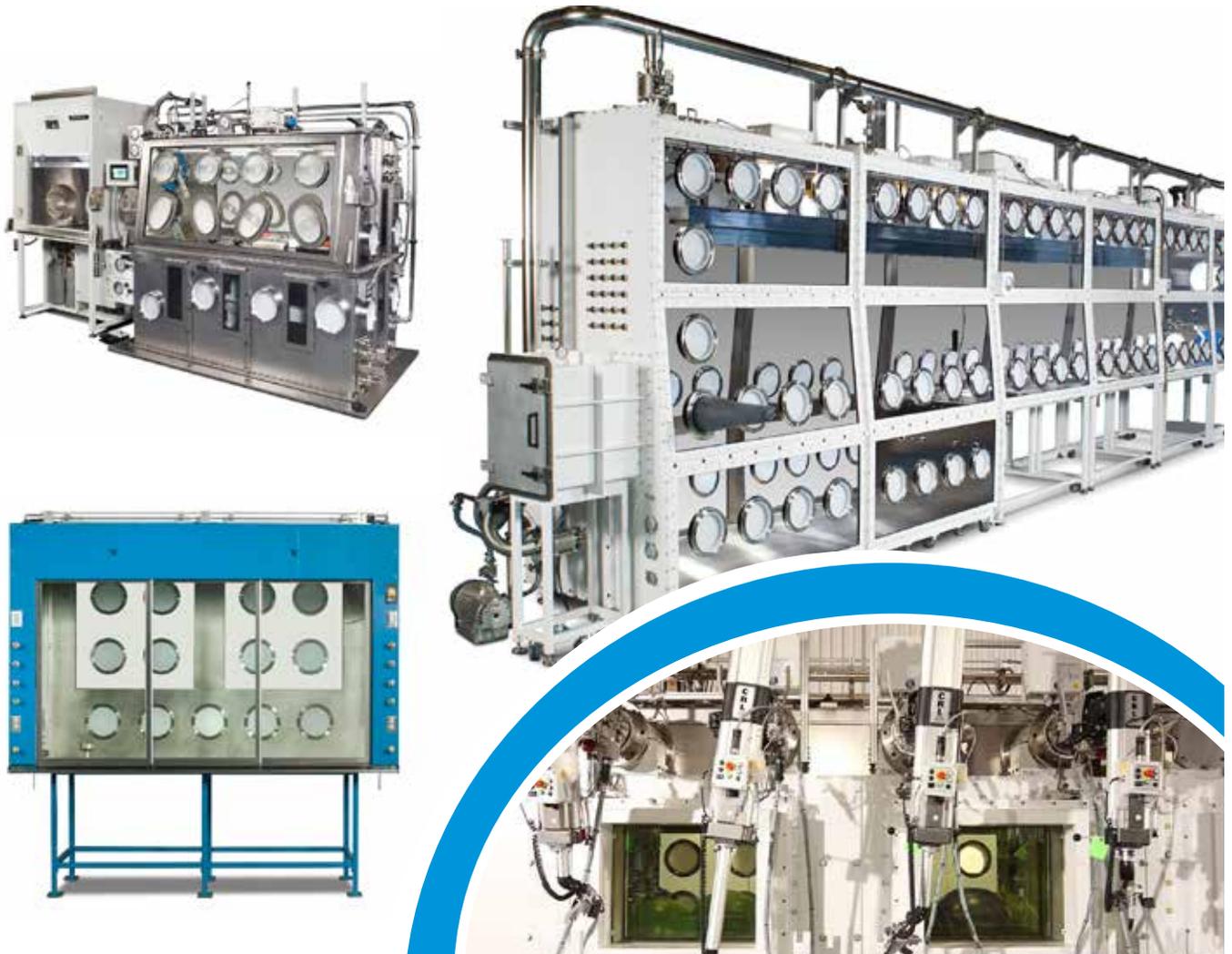
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[GloveboxSociety.org](http://GloveboxSociety.org)

# AUGUST 2nd - FOCUSED TRAINING: MATERIALS

## PRELIMINARY CONFERENCE AGENDA

### SPONSORS



**The Glove Integrity Experts**

#### WALKER BARRIER SYSTEMS EXTRACT TECHNOLOGY

AUDITED NQA-1 QUALITY PROGRAM  
NUCLEAR CONTAINMENT GLOVEBOXES  
METALLIC HOT CELLS



CONTACT:  
CRAIG JOHNSON  
PH: (608)853-0204  
CJOHNSON@WALKERBARRIER.COM



8:30 AM - 10:25 AM

#### SESSION 1

**SPONSORED BY: MK METALFREE CORPORATION**

#### INTRO & MATERIAL DESIGN CONSIDERATIONS

*Nate Levene, PE, Merrick & Company*

#### GLOVE TESTING & ENTIRE GLOVEBOX IN MINIMUM TIME

*Steve Chunglo, MK Metalfree Corp*

#### AGING MATERIAL EVALUATIONS IN THE UK

*Martyn Page, AWE Plc*

10:25 AM - 10:35 AM

#### BREAK

10:35 AM - 11:40 AM

#### SESSION 2

**SPONSORED BY: WALKER BARRIER SYSTEMS - EXTRACT TECHNOLOGY**

#### PROPERTIES OF PLASTICS & COATINGS

*George Fisher, Fisher Company*

#### NQA-1 MATERIALS VENDOR AUDIT

*Kevin Timms, Walker Barrier Systems - Extract Technology*

#### PROPERTIES OF METALS

*Stanley Gingrich, PE, Amentum*

11:40 AM - 11:50 AM

#### BREAK

11:50 AM - 12:45 PM

#### SESSION 3

**SPONSORED BY: SPRINGS ATG**

#### MOLY-99 HOT CELL MATERIALS

*John Bailey, Springs ATG*

#### SPRINGS ATG: AN OVERVIEW

*Kevin Oliver, Springs ATG*

#### OVERVIEW & CONCLUSION

*Justin Dexter, MBraun*

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# AUGUST 9th - HOT TOPICS & LESSONS LEARNED

## PRELIMINARY CONFERENCE AGENDA

8:30 AM - 9:55 AM

### SESSION 1

*SPONSORED BY: WAGSTAFF APPLIED TECHNOLOGIES*

#### INTRODUCTION

*Gary Partington, ProSys Containment*

#### GLOVE INTEGRITY TEST

*Steve Chunglo, MK Metalfree Corp.*

#### WAGSTAFF APPLIED TECHNOLOGY: AN OVERVIEW

*Dan Payne, Wagstaff Applied Technology*

#### HEAT SEALER FOR GLOVEBOXES

*W. Thor Zollinger, INL*

9:55 AM - 10:05 AM

### BREAK

10:05 AM - 11:15 AM

### SESSION 2

*SPONSORED BY: HAPTION*

#### OVAL GLOVEPORT GLOVE AND SUPPORT RING DETACHES TWICE INTO GLOVEBOX

*Thalia Natzic, Jose Rodriguez, Lloyd Vigil, Stacey Talachy, LANL*

#### HAPTION TELEROBOTICS FOR GLOVEBOXES

*Pierre Vercruysse, Haption*

#### ELECTROCHEMICAL DECONTAMINATION OF GLOVEBOXES

*Benjamin Karmiol, LANL*

11:15 AM - 11:25 AM

### BREAK

11:25 AM - 12:45 PM

### SESSION 3

*SPONSORED BY: MBRAUN, INC.*

#### DESIGN FEATURES OF THE COUNTING AND RESEARCH GLOVEBOXES FOR THE SAMPLE PREPARATION LABORATORY AT INL

*Nathan Petersen, INL*

#### MBRAUN, INC.: AN OVERVIEW

*Mike Boutin, MBraun, Inc.*

#### UNEXPECTED GLOVEBOX EVENTS: LESSONS LEARNED

*Wendy Conley, Amanda Martinez, & Stanley Trujillo LANL*

#### CONFERENCE WRAP-UP

*Justin Dexter, MBraun, Inc.*

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## MEET OUR SPEAKERS



**JOHN NEWMAN, PE**

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John Newman is a Professional Engineer with 40 years experience in the containment industry performing custom design and build of glovebox and containment systems for the nuclear, pharmaceutical, chemical agent, aseptic, and microelectronics industries. Involved in the AGS since it's inception, he has served as President, Board Member, and Standards Development Committee Member.



**GREG WUNDERLICH, PE**

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Greg Wunderlich has 23 years of experience in engineering (16 of which have been Nuclear-related). He recently was the Hot Cell Design Authority (lead hot cell engineer) for the ANSTO Mo99 Radioisotope Facility from design through fabrication, factory acceptance testing, installation, site acceptance testing, and commissioning. He is currently on the Board of Directors of the American Glovebox Society.



**CRAIG DEES**

---

Craig Dees is a Nuclear Research Facility Engineer and Glovebox engineer for Idaho National Laboratory. At the INL Craig works within the Radioisotope Power Systems program, who's mission is to assemble and test power supplies for deep space missions. Craig is a licensed professional engineer, and has been a member of the American Glovebox Society since 2013.

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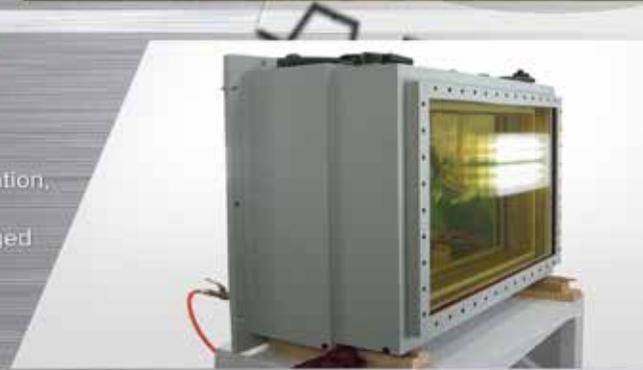
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## CONTACT US

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## MEET OUR SPEAKERS



**KEVIN OLIVER**

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Kevin Oliver currently works for the Advanced Technology Group, a division of Springs Fabrication. He has a mechanical and manufacturing engineering background and has been with ATG for almost five years. He brings more than 20 years of diverse manufacturing experience to the containment and equipment industry, having built a broad range of products from commercial gas turbine engines to touchscreens to custom capital equipment for the biotech industry.



**REBECCA WANTUCK**

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Rebecca Wantuck is currently working at Los Alamos National Laboratory as an ergonomist for the weapons production directorate. She is currently the lead glovebox ergonomist at the plutonium facility/Ta-55. She has trained over 250 glovebox workers to help reduce risk of injury while performing glovebox work. She performs research to understand and optimize glovebox tasks and participates on the glovebox safety committee. She graduated from Fort Lewis College in 2016 and is in her second year of her Masters in Human Factors with a Systems Engineering focus. This is her second year participating in the AGS conference.



**JOSEPH MCVEIGH**

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Joe McVeigh is Remote Operations Infrastructure Engineer at Oak Ridge National Laboratory. His nuclear industry experiences are focused on design and procurement of gloveboxes and other support equipment for both R&D and Production at the site. He supports the AGS as a member of the Board of Directors and the Standards Development Committee. Growing up in Johnson City, Tennessee; he graduated from Tennessee Technological University in 2012 with a B.S. in Mechanical Engineering, and from the University of Tennessee in 2017 with a M.S. in Industrial and Systems Engineering.

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## MEET OUR SPEAKERS



**NATE LEVENE, PE**

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Nate Levene is a project engineer at Merrick & Company primarily focused on containment of nuclear material. Nate has 24 years experience in the industry and has participated in the AGS for 20 years on the Standards Development Committee, Board of Directors, and two terms as President of the Society.



**MARTYN PAGE**

---

Martyn Page is a Chartered Mechanical Engineer. He has 20 plus years nuclear engineering experience at AWE covering design, operation, and maintenance of facilities conducting glovebox operations. He currently holds a company-wide role, providing operations advice and guidance to engineering teams across nuclear footprint at AWE. This gives him full visibility of any operational issues emerging at AWE and ideally places him to encourage the sharing of good practice and operational learning.

He is currently UK Liaison to the AGS Board of Directors and is an active lead member of the UK National Nuclear Glovebox Forum.



**GEORGE FISHER**

---

George Fisher has been operating his company for a very long time. The first glove boxes sheet lined with Kynar and Halar were done decades ago. Anyone can appreciate the challenges of doing this essentially, not unlike a linoleum floor covering with an adhesive glue. Fisher had already developed the science of applying very thick electrostatic fluorocarbon polymer coatings that would change entirely the metric in providing smooth, non-welded, chemically resistant, and seamless linings/coatings.

George holds three patents pending received for his work with thick coatings. His education included course work toward an MA at the University of Utah.

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## MEET OUR SPEAKERS



**STANLEY GINGRICH, PE**

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Stan Gingrich earned a B.S. in Welding Engineering, and an MBA in Operations Management. He is Director, Materials & Welding Engineering for Amentum and provides materials, welding, metallurgical, and corrosion expertise to projects and sites in all business groups and divisions worldwide. Before joining Amentum, he had consulted in many industries, including power generation (nuclear, fossil fuel, geothermal, hydroelectric), transportation (bridges, highways, dams, infrastructure, etc.), construction, defense, DOE, demilitarization, automotive, chemical processing, etc., for numerous companies specializing in the area of materials & welding engineering and quality control programs. (see conference app for full bio)



**JOHN BAILEY**

---

John Bailey is the Engineering Manager at Springs Advanced Technology Group. John has 18 years experience in low-medium volume manufacturing with an emphasis in the design of custom machinery. John brings diversity to SATG having worked in many industries including Nuclear, Radio-pharma, Pharma, Aerospace Composites, Medical Devices, Renewable Energy, Oil/Gas Exploration and Consumer Product Development. John has been a member of AGS for two years.



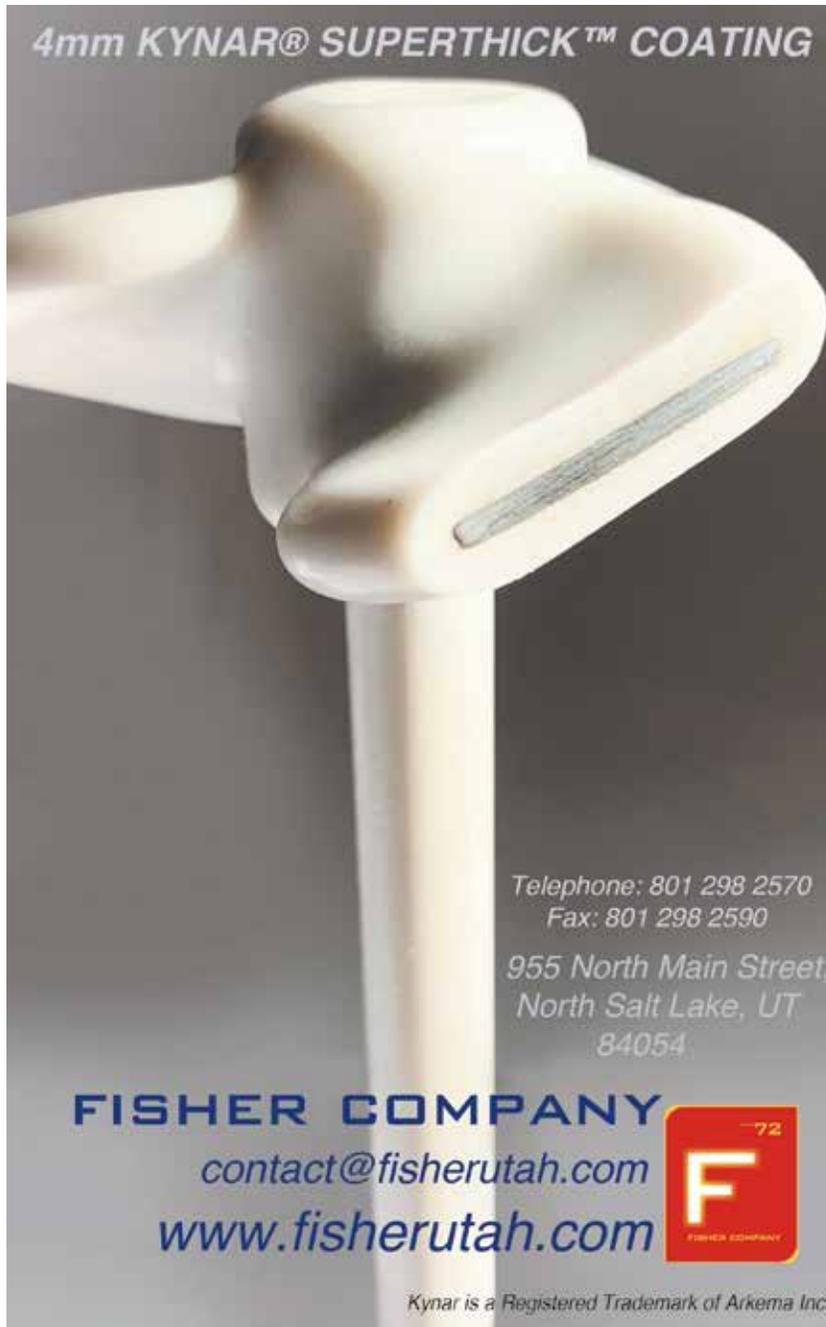
**JUSTIN DEXTER**

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Justin Dexter received his Mechanical Engineering degree from the Colorado School of Mines. He has been designing, building, and testing gloveboxes since 1995. Justin works for MBraun in their Golden, Colorado satellite office. He has been a member of the AGS Standards Development Committee since 2000, member of the AGS Board of Directors since 2011, and served as AGS President in 2015-16.

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## MEET OUR SPEAKERS



**GARY PARTINGTON**

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For over 2 years Gary Partington has been the Technical Sales Manager – Containment Systems for ProSys Containment & Sampling Systems who are based in Ireland. His focus has been on custom containment isolator systems for the Pharmaceutical Industry in North America. Gary has over 30 years experience in aseptic and containment isolator systems with various isolator companies and is a member of the International Society of Pharmaceutical Engineers and the Parenteral Drug Association. Gary holds a Bachelor of Science Degree in Mechanical Engineering from New Jersey Institute of Technology.



**NATHAN PETERSEN**

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Nathan Petersen is a Nuclear Research Facility Engineer for the Idaho National Laboratory (INL). He currently is acting as the lead engineer over confinements in the Irradiated Materials Characterization Laboratory. Nathan is also a design engineers over the new gloveboxes being fabricated for the Sample Preparation Laboratory also at the INL. Nathan has a BS in Mechanical Engineering and 7 years of engineering experience.



**THALIA NATZIC**

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Thalia Natzic is a glovebox engineer at Los Alamos National Laboratory (LANL) in Los Alamos, NM. Thalia has served LANL since 2019, before that she worked as a graduate research assistant at the Schatz Energy Research Center in Arcata, CA.

## AGS CONFERENCE GRAND PRIZE

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## MEET OUR SPEAKERS



**JOSE RODRIGUEZ**

---

Jose Rodriguez is a glovebox engineer at Los Alamos National Laboratory (LANL) in Los Alamos, NM. Jose has served LANL for 8 years. Prior to working for LANL, he worked for the Water/Wastewater Department of Civil Engineering Consultant in Albuquerque, NM as an engineering intern. Jose is currently serving on the AGS Board of Directors.



**BENJAMIN KARMIOL**

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Benjamin Karmiol has been an R&D process engineer at LANL for approximately 4 years. Prior to working at LANL, he worked at the Savannah River site, and at the Idaho National Laboratory in various capacities. He also spent 4 years in Normandy, France working at the La Hague reprocessing facility. He has a B.S. and M.E. in nuclear engineering from the University of Maryland, College Park.



**W. THOR ZOLLINGER**

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Thor Zollinger has over three decades of experience as a Design and Project Engineer for development, fabrication, and deployment of remote equipment for robotic applications in hazardous nuclear environments. Thor is currently at the Idaho National Laboratory, with previous work experience at the Savannah River site. Experience covers a broad selection of the disciplines within mechanical design, but his specialization has become equipment design for use in nuclear facilities. He has also served Seven years as an Entrepreneur launching a high tech startup company based on technology developed at the Idaho National Laboratory. At the beginning of his career he served as a US Navy Submarine Officer.

## MEET OUR SPEAKERS



**WENDY CONLEY**

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Wendy Conley, has worked at Los Alamos National Laboratory (LANL) for 27 years. Most recently Wendy's desire to learn more took her to LANL's technical area TA-55, Plutonium Facility where she was a Conduct of Operations subject matter expert and then on to becoming the Glovebox Safety Program Manager where she has oversight of the safety management program for approximately 800 gloveboxes. In this position, Wendy has developed the glovebox and enclosure sharps program, performs investigations with regard to glove failures/breaches, and worked with the Ergonomics Department in obtaining better and safer tools for the glovebox workers.



**AMANDA MARTINEZ**

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Amanda Martinez, has worked at Los Alamos National Laboratory (LANL) for 8 years primarily at LANL's technical area TA-55, Plutonium Facility where she has most recently become a subject matter expert within the glovebox safety management program. Amanda works closely with glovebox operators in ensuring hazards and controls are in place in order to meet mission critical milestones. Amanda will take over as the Glovebox Safety Program next June 2022 when Wendy retires.



**STEVE CHUNGLO**

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Mr. Steve Chunglo is the US Operations Manager at MK MetalFree Corp. Steve's career in the Containment Industry covers more than 34 years. Steve has Designed, Procured, Tested, and Sold Gloveboxes and Contained Transfer devices most of his career. Steve's current focus is in providing engineered solutions for quantitative leak testing of glovebox/Isolator/RABS gloves in a cost-effective manner to improve operator and operational safety and minimize line downtime.

# AGS VIRTUAL CONFERENCE

## JULY 26, AUGUST 2, AUGUST 9

### CONTACT INFORMATION

Name \_\_\_\_\_

Company \_\_\_\_\_

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### EARLY BIRD REGISTRATION PRICING

- Full Conference (Jul. 26, Aug. 2, Aug. 9) \$395 (includes one year AGS Membership)
- Fundamental Training Only (Jul. 26) \$295 (includes one year AGS Membership)
- Focused Training Only (Aug. 2) \$100 (AGS Membership Not Included)
- Technical Sessions/Lessons Learned Only (Aug. 9) \$100 (AGS Membership Not Included)

Focused Training and Lessons Learned will be recorded.

Recordings will be available to Conference registrants through December 31st.

Early bird deadline is July 9th. After July 9th, add \$50 to registration pricing.

ONLINE REGISTRATION AVAILABLE AT: [GloveboxSociety.org](http://GloveboxSociety.org)

**Continuing education certificates available upon request**

Please contact your licensing board to determine if this program qualifies for continuing education in your state.

### PAYMENT INFORMATION

**METHOD OF PAYMENT:**  Check  VISA  MasterCard  American Express

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_ CVV# \_\_\_\_\_

Name (as it appears on card) \_\_\_\_\_ Billing Zip Code \_\_\_\_\_

Signature \_\_\_\_\_



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