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THE LONGEST RUNNING MAGAZINE DEDICATED SOLELY TO THE TECHNOLOGY AND APPLICATION OF SUPERABRASIVES

INTERTECH Registration Packet & Conference Details
CBN-AMX

- these crystals were removed from electroplated CBN wheel's (same manufacturer) after grinding 15,000 Specific Volume Material Removed Vol' (mm³/mm) of 'Inconel 718
- note the consistent 90 degree fracture mode fracture mode for the AMX which directly relates to the long, consistent grinding cycles (note in the Power vs. Volume chart below)
- note that the AMX (Pink line) consistently draws lower power and provides a more free cutting crystal
- note that the Competitor H crystal, also removed after grinding the same amount of workpiece materials, exhibits a non-uniform crystal breakdown that is clearly exhibited in the Power vs. Volume chart
The recently completed “forward join,” or forward portion, of the core stage for NASA’s Space Launch System’s core stage is on display at NASA’s Michoud Assembly Facility in New Orleans. The forward join connected three structures shown above: the forward skirt, the liquid oxygen tank and the intertank. This first core stage will send Exploration Mission-1, the first integrated flight of SLS and the Orion spacecraft, out beyond the Moon.

Image Credit: NASA/Jude Guidry

FINER POINTS is the longest running publication devoted exclusively to the understanding, selection and application of diamond, cubic boron nitride and related materials. It is edited for recipients who are involved in some way with these “superabrasives”, either as providers of the materials, producers of products containing the materials or users of these products (e.g., grinding wheels, dressing tools, drill bits, saw blades, sawing wires, cutting tools, polishing compounds, CVD film products, etc.).
Greetings Industry Enthusiast,

What an unbelievable market we are in. As some of you know there is a lot changing in our industry. We have seen product developments and progression as to the way we look at and use Superabrasives. To be your IDA President during such a bountiful time has been very rewarding and also challenging as it seems we all are trying to stay on top of the wave as much as possible.

I have traveled the world and looked to how our economy is viewed. Talk about recession pops up frequently in casual conversations, especially whenever the stock market takes a tumble as it did late last year. One thing I know is that there is nothing anyone can point to that has the potential to be a surefire trigger for the next recession. I look at our unemployment rate and my own struggles to hire talent and wonder, where does this useless chatter come from?

Moving forward, I forecast 2.7 percent growth for 2019, understanding that the global economy is softening and there are some global political uncertainties. With that understanding, policymakers need to build on last year's momentum by taking action on additional priorities, including approval of the NEW NAFTA U.S.–Canada–Mexico Agreement, to ensure manufacturers in America can continue to grow and prosper.

Looking at the EDA data Capital equipment sales are still pacing as they did in 2018. This is a strong indicator that manufacturing is still confident. I would say, as I do to my team “Just keep rowing and don’t look back.”

As you all are aware INTERTECH 2019 is coming and I am hoping to see everyone there. We have put together an excellent group of presenters and an All Star lineup of Keynote speakers. Please make sure to join us and spread the word about this amazing event.

We can’t wait to see you in the Big Easy!

Best regards,

Shane Hollenbaugh, President
Industrial Diamond Association of America

FINER POINTS is the official publication of the Industrial Diamond Association of America, Inc. and is published fours times a year. Contributions are welcomed but the Editor reserves the right to accept or reject any material deemed inappropriate for publication. All by-lined articles published in this magazine represent solely the individual opinions of the writers and not necessarily those of the Industrial Diamond Association. Executive and Editorial Offices: Finer Points, P.O. Box 29460, Columbus, Ohio 43229, (614) 797-2265. Editor and Advertising, Terry Kane. Advertising rates and deadlines available upon request. Copyright Industrial Diamond Association of America. Material in FINER POINTS may not be reproduced in any form without express written consent.

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We hear over and over about the loss of skilled operators on production lines. Skilled machinists are retiring with increasing numbers and the void keeps getting more extensive. How do we address this problem? High schools no longer have “Shop Class” where students can learn to make or fix something! So where do students that want to work with their hands find their niche? The answer is a Trade or Vocational school. Recently I read a report that many students go to a four year college because they believe it’s the “normal” thing to do and 30 percent of students worldwide only go because they think it’s the natural progression after high school. The reality is, 45 percent of recent college grads are working in jobs that don’t require college degrees. College is perfect for those who have a desire to pursue a profession that requires a bachelors, masters or professional degree, but what about those seeking a trade? God knows we will be in serious trouble if there are no carpenters, repairmen, electricians or machinists in our future. An apprenticeship or certificate from a specialized trade or vocational school is well worth the time and effort spent by many young people! Time and again we see the writing on the wall from manufacturing based companies and production operations struggling to find replacements for their retiring workforce! The Industrial Diamond Association of America (IDA) has always made a conscious effort to encourage and support the trades. Throughout our history we have developed educational courses and literature for manufacturing operations and their associates on the use of industrial diamond and cubic boron nitride (cBN). In continuing this mission, the IDA Board of Directors has laid out a plan to reach out to trade schools and partner with them to support education in super abrasives. Our ongoing education courses are currently full of those seeking to learn more about super abrasive theory, materials and applications but we need to draw more attendees that are completely new to super abrasives at the trade school level. This will help solve the shortfall of new operators entering the workforce lacking a basic knowledge of what super abrasives are and what they can do.

Of course, education is also the KEY for upper management and engineering when it comes to super abrasives. Industrial diamond and cBN are not being used everywhere they can make an impact in productivity, reducing scrap and overall cost reduction in the manufacturing process. I see applications at trade shows, online and on social media where manufacturing leaders are talking about machining and grinding using conventional abrasives where the obvious choice to the educated person would be use diamond & cBN! INTERTECH has always been a great forum for introducing new products, new raw materials for components and applications developed across all industries. A favorite term I heard a few years ago at INTERTECH was “Crossover Technology”. One of our attendees told me that this was why he never missed INTERTECH. He could go from presentation to presentation and hear about applications or materials developed for aerospace, automotive or other industries and see how the technology in one industry would “crossover” to another. We all know that aerospace, for obvious reasons, seeks lighter weight and higher strength raw materials which, by their very properties, make them extremely difficult to machine and grind into final components and parts. As a normal progression, automotive has demanded the same raw materials to reduce weight for fuel efficiency. The same demand has logically come from literally all other industries! Through Keynote addresses from major end users in manufacturing like Ford Motor Company, The Boeing Company, Apache Aerospace and NASA and supported by multiple technical presentations, this year’s INTERTECH will continue in its mission to educate and be a KEY resource for industry. Use this KEY to unlock your mind to the possibilities!
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WHY ATTEND INTERTECH 2019?

Industrial Diamond, Cubic Boron Nitride (cBN), CVD diamond, CVD Cubic Boron Nitride, Nanodiamond, Polycrystallines and related materials are making greater strides in most industries. Today, superabrasives or ultra-hard materials, as some call them, are not only serving as abrasives for material removal, but also acting as wear materials, heat sinks, knives, laser windows, heat shields for spacecraft, prosthetics, nanodiamond vehicles to carry disease fighting drugs and other groundbreaking applications.

These superabrasives are making it possible to economically use difficult to machine and grind workpiece materials such as superalloys, high tech ceramics, metal matrix composites, bimetals, cermets, glass and many other newly processed alloys and composites used in manufacturing operations.

Leading manufacturers and service providers have made a major commitment to take full advantage of the properties of diamond and other ultrahard materials in their processes and applications. New workpiece materials, groundbreaking uses and an increased demand for productivity have heralded the need for superabrasives in every application possible. Machine tools are now being designed to take full advantage of superabrasive cutting tools, wheels and blades and this is just the beginning.

Application of superabrasives has grown from the first use of natural diamond to grind tungsten carbide in the early 1940’s to a broad range of high production applications across many manufacturing and service industries. From grinding and machining of superalloys and high-tech ceramics in aerospace to metalworking of hardened steel, bi-metals or metal matrix composites in automotive as well as the sawing or drilling of stone and concrete or new uses of nanodiamond and CVD diamond and cBN, literally every industry is seeing the benefits of diamond and other ultra-hard material properties. Industries have made great strides by increasing productivity, reducing manufacturing & operating costs and implementing new technology.

Whether it’s the processing of stone from huge quarries, drawing wire, providing laser windows, shaping wood and laminates, grinding glass, texturing the close tolerances for the discs in electronic hard drives, providing medical breakthroughs in prosthetics or nanotechnology, growing large single crystals or coating base materials with diamond film, superabrasives are industry’s choice for myriad solutions and cost effective processes.

Much of this explosive growth has occurred in the last three decades. It is vital for continued prosperity that every company and individual, working or doing business in this burgeoning industry, devotes more time and resources to user education and application development.

INTERTECH 2019 has the unique position of global sponsorship and participation, bringing together technical and commercial experts to discuss applications, technical innovations and industry trends that will shape the future.

INTERTECH 2019 will serve as an international forum for all participants to meet and focus on specific issues related to superabrasive use with common goals of increased productivity, new technological development and reducing overall business costs.
**INTERTECH MISSION STATEMENT**

"INTERTECH conferences will serve as an international forum on new technology for diamond, cubic boron nitride (cBN) and other related materials classified as superabrasive or ultra-hard materials. INTERTECH will educate attendees and disseminate research and application development information covering these materials. INTERTECH will host all global manufacturing, technical, research, academic, commercial and end user organizations to share scientific breakthroughs and innovations. INTERTECH will adhere to the mission of blending technical innovation, research and product development with the ultimate focus on end user application."

**KEY CONFERENCE FEATURES**

- **TECHNICAL AND APPLICATION PRESENTATIONS** from all areas of interest to evaluate growth opportunities of diamond, cBN and other ultra-hard materials with a focus on performance and productivity.
- **EXOTIC MATERIALS FOR COMPONENTS USED IN AEROSPACE, AUTOMOTIVE, MEDICAL, OPTICS** and other major manufacturing industries featured.
- **SUPERABRASIVE MATERIALS REQUIRED** to fabricate industrial components cost effectively will be highlighted.
- **OUTSTANDING VENUE** at the Hyatt Regency New Orleans, Louisiana USA with excellent weather in May of 2019.
- **ONCE IN A LIFETIME INTERACTION** with technical and business leaders, scientists, peers, suppliers, academia, manufacturers, tool fabricators, machine tool builders and end users within the structure of a Global Technical Conference.
- **RECEPTION TO COLLABORATE** other attendees, presenters and business leaders.
- **OPPORTUNITY TO HEAR EXPERTS FROM DIVERSE TECHNOLOGIES** and to personally interact with all presenters and attendees.
- **TABLETOP DISPLAYS AND EXHIBITIONS** from leading companies in the industry with time to discuss products and solutions.
- **KEYNOTE SPEAKERS FROM MAJOR AEROSPACE, AUTOMOTIVE AND MANUFACTURING COMPANIES.**
- **CHANCE TO EVALUATE EMERGING TECHNOLOGIES AND MATERIALS** for your own application situations.
- **THREE DAYS WITH 36 CONCURRENT SESSIONS** of technical and commercial papers.
- **SPLENDID SIGHTSEEING**; entertainment, dining and tourist attractions of the magnificent city of New Orleans.
- **MEET WITH INDUSTRY LEADERS** from major research companies, suppliers, end users and peers for networking and discussion.
- **CAMARADERIE AND CONVERSATION** over wonderful meals and events.
- **ALL PAPERS CONSIDERED FOR PUBLICATION** in Finer Points Magazine and reciprocal trade magazines around the world.
- **COMPLIMENTARY PROCEEDINGS** to all attendees … **And More!**

**NO SMOKING PLEASE**

Smoking is prohibited in all meeting facilities.

**TEMPERATURES IN MAY FOR NEW ORLEANS**

May in New Orleans sees temperatures climb steadily, and this is a perfect time to visit and see all that the city has to offer. The average temperature reaches a high of 28°C (that's about 82°F) during the day and only dips to a mild 20°C (about 68°F) in the evenings. **Evenings could require a light jacket or sweater.**

**CONFERENCE DRESS**

Recommended dress for the conference attendees is business casual. Gentlemen presenters are asked to wear a jacket and ladies suitable business attire. Rooms are air conditioned, so a sweater or a jacket is recommended.

**SPECIAL ASSISTANCE**

Prior to the meeting, please call or email IDA Headquarters (Tel: 614-797-2265, email: tkane-ida@insight.rr.com) if any special assistance is required for any attendee. On-site, guests requiring special assistance should contact a member of the INTERTECH 2019 staff at the Conference Desk.

**SESSION RECORDINGS & PHOTOGRAPHY**

Due to proprietary information and as a courtesy to our speakers, no audio and video recording or photography (INCLUDING CELL PHONES) of the presentations may be made without the prior written permission of the Industrial Diamond Association of America (IDA). All INTERTECH 2019 presentations are copyrighted to the Industrial Diamond Association of America (IDA) and the IDA reserves the right to prohibit the recording of presentations or photography even if it is intended for personal use.

**INTERTECH 2019 Administrative Details**

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- [**THURSDAY, MAY 30**](#)
- [**FRIDAY, MAY 31**](#)

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**INTERTECH 2019* Event Snapshot**

**New Orleans, Louisiana USA ● May 29-31, 2019**

**WEDNESDAY, MAY 29**

- **CONTINENTAL BREAKFAST** 7:00-8:00 am • **REGISTRATION** 8-12 Noon
- **8:45 am - 12 Noon** APPLICATIONS of Diamond, Cubic Boron Nitride (cBN) & Other ULTRA-HARD MATERIALS
  - Designs for Industry Applications
  - Machining & Grinding
  - Exotic Materials
- **12 Noon - 1:00 pm LUNCH**

**THURSDAY, MAY 30**

- **CONTINENTAL BREAKFAST** 7:00-8:00 am • **REGISTRATION** 8-12 Noon
- **8:45 am - 12 Noon** ADVANCEMENTS AND APPLICATION OF AEROSPACE MATERIALS
  - Carbon Based
  - Titanium
  - Thermal Sprays
  - Superalloys
  - Composites
  - Ceramics
- **12 Noon - 1:00 pm LUNCH**

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**FRIDAY, MAY 31**

- **CONTINENTAL BREAKFAST** 7:00-8:00 am • **REGISTRATION** 8-12 Noon
- **8:45 am - 12 Noon** DEVELOPMENT OF NEW MATERIALS FOR AEROSPACE
  - Superalloys
  - High Silicon Aluminum
  - Ceramic Matrix Composites
- **12 Noon - 1:00 pm LUNCH**

**OPEN EVENING**

- **1:00 pm ATTENDEES**
  - RETURN HOME OR SPEND ADDITIONAL DAYS IN NEW ORLEANS SIGHTSEEING AND NETWORKING

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INTERTECH 2019 will be the featured conference for new technology and application development of superabrasives and super-hard materials.

**INTERTECH 2019** is the leading International Technical Conference on industrial diamond, cubic boron nitride, polycrystallines, CVD diamond, CVD Cubic Boron Nitride, Nanodiamond and other materials classified as superabrasives and ultra-hard materials.

**INTERTECH 2019** will serve as a forum for leading experts representing international suppliers, manufacturers, research facilities, academia, end-users, machine tool builders and the scientific community. They will be presenting papers on subjects that will introduce new and thought-provoking technology on industrial and commercial levels. This will be an international “meeting of the minds” for every aspect of ultra-hard material science.

**MATERIALS FEATURED THEME**

Today's components in major industries like Aerospace and Automotive are made of exotic and difficult to machine and grind materials such as Titanium, High Silicon Aluminum, Superalloys, High Tech Ceramics, Ceramic Matrix Composites (CMC), Metal Matrix Composites, Carbon Fiber Composites, High Silicon Aluminum, Bi-Metals, Glass, Cermets and others. In production operations these materials require the high productivity, close tolerances and superior performance attainable only by diamond and cBN tooling for machining, grinding and other material removal and finishing operations.

**NEW ORLEANS IS A MAJOR ATTRACTION...**

In 2019 the Industrial Diamond Association of America welcomes the world to the INTERTECH at the Hyatt Regency New Orleans, Louisiana USA. Experience the best of the Big Easy at the award-winning Hyatt Regency. Located right next door to the Superdome, King Center and Champions Square, you'll find easy access to the area's most popular attractions. Hop on a Streetcar or take a walk to the historic French Quarter, Arts District, Audubon Aquarium of the Americas and the scenic Mississippi Riverfront.

- According to current travel guides, New Orleans is one of the top ten most-visited cities in the United States
- A recent poll of “America’s Favorite Cities” ranked New Orleans first in ten categories, the most first-place rankings
- New Orleans also ranked second for friendliness, hotels/inns, and is world famous for ethnic food
- New Orleans is a significant center for music, showcasing its intertwined European, Latin American, and African cultures.

The city’s unique musical heritage was born in its colonial and early American days from a unique blending of European musical instruments with African rhythms.

Attendees at INTERTECH 2019 will find an exceptional combination of technological advancements and fabulous sightseeing!

**YOU CAN BE A PART OF THIS EXCITING EVENT!**

We are now soliciting commercial and technical papers of approximately 30-45 minutes in length that address the research of these super-hard materials as well as the dynamics and application of superabrasive systems in automotive and other industries as well (see: Areas of Consideration) with a focus on new technology, tooling, workpiece materials, machines and applications related to increased **PRODUCTIVITY** and **PERFORMANCE**. Consideration for papers is being made at this time and abstracts are now being accepted; contact us today to be considered. This will be the most comprehensive event ever held on diamond and cubic boron nitride superabrasives used to machine and grind exotic and difficult to work raw materials for components in major industries like Automotive, Aerospace and similar industries!


**FINER POINTS**

INTERTECH Registration Packet & Conference Details
SUPERABRASIVE MATERIALS
• Mesh Diamond
• Mesh Cubic Boron Nitride (CBN)
• Polycrystalline Diamond (PCD)
• Polycrystalline Cubic Boron Nitride (PCBN)
• Wire Dies (large crystal and polycrystalline)
• CVD Diamond
• CVD CBN
• Nanodiamond
• New Crystals

MACHINE TOOLS
• Development
• Innovations
• Advancements
• Superabrasive Application
• Designed Machines

RESEARCH & DEVELOPMENT
• New Crystals & Abrasives
• New Coatings
• Bond Development
• Testing/Gauging
• Tool Fabrication
• Materials
• Tooling
• Application Development
• HPHT Technology
• Film (CVD & PVD)
• Magnetohydrodynamo Finishing
• Electrolytic In-process Dressing (ELID) Mirror-Surface Grinding
• Nanotechnology

TOOLING
• Grinding Wheels
• Cutting Tools

WEAR PARTS
• Sawblades
• Drill Bits

INDUSTRY AND TOPICS FOR CONSIDERATION

AEROSPACE
• Manufacturing
• Rebuilding

AUTOMOTIVE
• Parts Manufacturing
• Gears
• Wheels
• Transmissions
• Engines

CONSTRUCTION/HIGHWAY
• Concrete Aggregates & Variables
• Highway/Runway – Grinding & Grooving – Bridge Repair – Renovation – Block Grinding – Polishing

ELECTRONICS
• Optical Windows
• Semiconductors
• Heatsinks
• Coatings

GLASS
• Lens Generation
• Polishing
• Pencil Edging

MACHINE TOOLS
• Development
• Innovations
• Advancements
• Superabrasive Adaptation

MEDICAL
• Surgical Knives
• Prosthesis Fabrication

MEMBRANE/DRILLING/NATURAL RESOURCE EXPLORATION
• Drills & Bits

NANOTECHNOLOGY
• Medical Developments

OPTICS
• Polishing
• Lens Generation
• Diamond Coating

STONE PROCESSING
• Quarrying
• Sawing
• Polishing

SUPPLIERS TO SUPERABRASIVE INDUSTRY
• Raw Materials
• Coolants
• Chemicals
• Measuring, Gauging & Safety
• Pressing Equipment

OTHER MANUFACTURING
• Industrial Applications
• Electronics
• Other Research & Developments

WEAR PARTS
• Other

WIND & TURBINES
• Gears
• Vanes
• Shafts
• Frames

WIRE DRAWING
• New Technology
• Applications
• Manufacturing

WOODWORKING
• Hardwoods
• Fiberboard
• Laminates
• Composites

ABSTRACTS ARE STILL BEING ACCEPTED

We will reply to all submissions. Come join us! INTERTECH has the tradition of being the most comprehensive event held on superabrasives and ultra-hard materials.

(PLEASE PRINT CLEARLY AND FILL OUT COMPLETELY. INCLUDE ABSTRACT)

INTERTECH Registration Packet & Conference Details
Every INTERTECH we strive to improve all aspects of the conference. This year we not only will be offering our outstanding technical sessions, but we also have improved the features of the conference by structuring the program around Materials used for components in all manufacturing industries and the superabrasives (diamond and cubic boron nitride) used to fabricate those difficult to machine and grind components. To meet this challenge we have restructured the organizational committees for INTERTECH. This year the INTERTECH and the Industrial Diamond Association of America (IDA) are proud to introduce the three Committees that are ultimately responsible for putting together the INTERTECH 2019. The two committees are the STEERING COMMITTEE and the TECHNICAL ADVISORY COMMITTEE. These committees have been working together to produce the best combination of presentations and contributors to represent both the Technical and Practical Application sides of the superabrasive industry. The Steering Committee changes each INTERTECH and consists of notable business leaders from across the industry. They have dedicated their time and efforts to see that INTERTECH 2019 is a success on every level from the promotional materials, venue & speakers to the program, tabletop exhibits and daily events. Their efforts constitute years of planning and coordination to bring about this International Event.

**STEERING COMMITTEE**

- **STEERING COMMITTEE CHAIRMAN:** Shane Hollenbaugh – YG-1 USA  
- Renee Nord – 3M Abrasives Systems Division  
- Ed Francis – Crystallume Engineered Diamond Products  
- Eric P. Bieberich – Fort Wayne Wire Die, Inc.  
- Charles Rarey – Hyperion Materials & Technology  
- Michael Lew – MWI Eloquence Corporation  
- William (Bill) D. Fisher Jr. – National Research Company  
- Julie Griffin – Precision Eforming  
- Kevin Stiles – Radiac Abrasives, A Tyrolit Company  
- Marc Modersitzki – US Synthetec, an Apergy Company  
- Aaron Nolan – Worldwide Solids, A Division of Worldwide Superabrasives LLC USA  

**INTERTECH Chairman:** Terry M. Kane, Executive Director, Industrial Diamond Association of America, Inc. (IDA)  
**INTERTECH Meeting Planner:** Kathy A. Kane, Business Manager, Industrial Diamond Association of America, Inc. (IDA)

**TECHNICAL ADVISORY COMMITTEE**

The INTERTECH 2019 TECHNICAL ADVISORY COMMITTEE will provide the technical guidance and recommendations for the technical portion of INTERTECH 2019. They will also provide formal review of the submitted abstracts and papers to insure that the quality and content of each paper is relevant and representative of the technology for the superabrasives industry and guarantee each conference session will consist of the best research papers and state-of-the-art topics for our industry. The TECHNICAL ADVISORY COMMITTEE is a standing committee in itself to assist through-out the year to expand technical programs of the IDA and to make sure the content of technical information is legitimate, viable and valuable. Dr. Ion Benea will serve as the founding Chairman of this committee; future chair people to be voted on by committee. Anyone willing to serve has a position as long as they want it providing they follow IDA code of ethics as outlined in the IDA By-laws. The TECHNICAL ADVISORY COMMITTEE (as technical advisory body) will be made up of scientists and engineers well known in the world of superabrasives. The goal is to improve on the technical content of INTERTECH Conferences. Consequently, the IDA has reached out to industry, research and academia (universities) for help in forming this committee. The goal is for the Technical Advisory Committee to have a balanced composition between industry, research and academia.
**TECHNICAL ADVISORY COMMITTEE - Members**

*Members subject to change as new members are included or resign*

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<th>TAC Founding Chairman</th>
<th>PRO. FRANTIŠEK HOLEŠOVSKÝ, MSc., Ph.D.</th>
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<td>ION C. BENEÁ, Ph.D.</td>
<td>Faculty of Mechanical Engineering</td>
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<td>Vice President Operations – Hyprez Products – Engis Corporation</td>
<td>University of West Bohemia</td>
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<td>(Honorary Member)</td>
<td>General Manager, Super Hard Materials</td>
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<td>Kent H. Smith Professor Emeritus of Engineering, Department of</td>
<td>Research Department</td>
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<td>Chemical Engineering – Case Western Reserve University • Cleveland, OH USA</td>
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<td>Honorary Research Fellow</td>
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<td>PROF. IOAN MARINESCU, Ph.D.</td>
<td>PROF. LIANGCHI ZHANG, Ph.D.</td>
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<td>Dr. rer. nat. habil., Dr. Ing.</td>
<td>Scientia Professor &amp; Australian</td>
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<tr>
<td>Head of Micro and Nanosensor Department (GF5)</td>
<td>Professorial Fellow, School of</td>
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<td>Fraunhofer-Institute for Applied Solid</td>
<td>Mechanical and Manufacturing</td>
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<td>The University of New South Wales</td>
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<td>New South Wales, Australia</td>
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Keynote Speakers

Dr. RENEE HORTON

SPACE LAUNCH SYSTEM (SLS) LEAD METALLIC/WELD ENGINEER
NASA RESIDENTIAL MANAGEMENT OFFICE

Dr. Horton is a native of Baton Rouge, Louisiana and lifelong lover of science and NASA. A graduate of Louisiana State University with a B.S. of Electrical Engineering with a minor in Math in 2002 and a Ph.D. in Material Science with a concentration in Physics, becoming the first African American to graduate from the University of Alabama in 2011 in this area. Dr. Horton currently serves as the Space Launch System (SLS) Lead Metallic/Weld Engineer in the NASA Residential Management Office at Michoud Assembly Facility (MAF) in New Orleans. She worked for NASA, first as a student from 2009 to 2011, and then started her career as a mechanical test engineer in 2012. In 2014 she was promoted to her current position. In 2016, Renee was elected President of the National Society of Black Physicists (NSBP) as the second woman to hold the office. She has served the physics community abroad as a member of the International Union of Pure and Applied Physics (IUPAP) Women in Physics Working Group and currently serves on several advisory boards dedicated to a more diverse inclusion in physics. In 2017, she was elevated to a Fellow in the NSBP, which is the highest honor bestowed upon a member. Renee has been an invited speaker for the first International Women and Girls Day at the United Nations, Essence Power Stage, March for Science – New Orleans and recently the LSU Engineering Spring Commencement. She has spoken all over the world including South Africa, Brazil, South Korea, Canada, Mexico and the beautiful Virgin Islands. She is featured in NASA’s I am Building SLS, Physics Today, and the LSU Alumni Magazine. She recently graced the cover of the Hearing Health Foundation Magazine, winter edition that can be found online. She is the author of Dr. H Explores the Universe, Dr. H and her Friends, and Dr. H Explores the ABCs.

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**MIKE FELIX**

GLOBAL CHIEF ENGINEER  
FORD POWERTRAIN MANUFACTURING ENGINEERING

Mike's responsibilities include Global Machining and Assembly Processes for Engines, Transmissions, Axles and Electrification components; including Hybrid Batteries, eTransaxles and eMotor manufacturing. Mike has been with Ford for over 30 Years. He started his career at the Cleveland Engine Plant Facility in 1988 as an Engineering Graduate. Mike's career has progressed through a number of engineering and operations positions within Powertrain. He has worked in nine different Ford Plants throughout his career and has spent 11 Years as Plant Manager in 5 different Plants across Ford Powertrain, as well as international and Staff Engineering assignments. Mike has a BSME in Mechanical Engineering from Akron University and an MBA from Baldwin Wallace College both in Ohio. Mike assumed his current role as Chief Engineer in 2017.

**JIM DELAND**

TECHNICAL SUPPORT ENGINEER  
APACHE AEROSPACE

Jim's responsibility at APACHE AEROSPACE involves providing technical support for drilling solutions to major aerospace companies and their suppliers. His background in aerospace includes over 28 years at THE BOEING COMPANY as a Research & Technology Engineer where he worked in the Assembly Technology area supporting technology development for production. Jim was frequently called on to develop manufacturing solutions for new airplane programs and was instrumental in successfully developing and implementing new drilling technology on both the 787 & 777X Program. During his career he has earned 9 patents both in assembly technology and new cutting tool development. Based on his engineering achievements he was recognized as a Boeing Associate Technical Fellow in 2011. Recently Blue Origin reached out to Jim to provide his drilling and assembly expertise as a consultant on the New Glen rocket program. Jim has published multiple papers for SAE on the topic of cutting tool technology and has presented at multiple conferences about drilling technology. Jim is a graduate of the Oregon Institute of Technology with a B.S. in Manufacturing Engineering Technology.
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**FEES** – INCLUDES ACCESS TO ALL SESSIONS, EXHIBIT AREAS, MEALS, WELCOME RECEPTION AND ELECTRONIC CONFERENCE PROCEEDINGS

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<thead>
<tr>
<th>Category</th>
<th>Fee</th>
<th>Early Payment (by May 4, 2019)</th>
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<tr>
<td>Full Conference</td>
<td>$1395 USD</td>
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<td>IDA of America Member</td>
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<td>Speakers/Presenters</td>
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Name: ________________________________________________________________

Title: _______________________________________

*Company: ________________________________________________________________________________________________________

5% Discount for any company with 5 or more attendees (include forms with additional names)

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- Speaker
- IDA America Member

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**SPECIAL DISCOUNTS AND CONSIDERATION:**

- **END USER**, classified as those companies strictly “USING” superabrasives in the manufacture of finished components, such as an aerospace or automotive manufacturer or contractor, and not making any superabrasive products, wheels or tools for sale – $895 USD

- **STUDENT**, Registered full time towards a degree. Must be accompanied by a signed letter from Department head verifying status – $895 USD

- **GUEST of a registered attendee wishing to attend just the Wednesday’s Welcome Reception on May 29, 2019** – $150 USD. Number of Guest Reservations ________

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Check the method of payment and fill in the credit card information, if applicable. All checks must be paid in US funds and drawn on a U.S. bank.

- ☐ Check - Payable to: Industrial Diamond Association of America
- ☐ Wire Payment - Contact IDA Headquarters by email: tkane-ida@insight.rr.com or Fax: 614-797-2264 to receive banking transfer information.
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**FAX OR MAIL COMPLETED FORM TO:**
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**OR REGISTER ON-LINE AT WWW.INTERTECHCONFERENCE.COM**

**QUESTIONS? Call:** 614-797-2265 • **Email INTERTECH Chairman:** Terry Kane at: tkane-ida@insight.rr.com or INTERTECH Meeting Planner/ Business Manager: Kathy Kane at: kathykgc@insight.rr.com

INTERTECH Registration Packet & Conference Details
TABLETOP RESERVATIONS

Another special feature of the INTERTECH 2019 technical conference will be the inclusion of Technical/Product tabletop displays by participating companies. PARTICIPATING COMPANIES ARE THOSE THAT HAVE ALL PEOPLE WORKING AT THE TABLETOP EXHIBITS REGISTERED AS ATTENDEES FOR THE CONFERENCE. There will be a LIMITED number of spaces around the conference foyer and break area made available to companies that wish to exhibit and display literature, their products or materials.

Due to the limited space, reservations can only be guaranteed when the completed form and payment are received at IDA Headquarters or completed on-line. Additional companies seeking space will be put on a waiting list as received.

These spaces fill up early so make your reservation as soon as possible!

PLEASE PRINT CLEARLY AND FILL IN COMPLETELY:

First Name: _________________________________Last Name: ________________________________________________
Title: _______________________________________Company: __________________________________________________
Address: _________________________________________________________________________________________________
City: _______________________________________State/Province: ______________________________________________
Zip/Postal Code: ___________________________ Country: ____________________________________________________
Phone: _______________________________________Fax: ______________________________________________________
Email: ____________________________________________________________________________________________________

FEE SCHEDULE
The fee for each tabletop space is $1045.00 USD, discount for IDA Member company $995.00 USD.

WHAT IS INCLUDED?
Exhibit space reservation fee will cover a single (6’x 2.5’) draped table for placement of literature, products, materials or exhibits for the full three days of INTERTECH. Any additional requirements for electricity, Internet connections, setup or drayage must be contracted with hotel services.

EXHIBIT PARAMETERS
Each display must be limited to the confines of the (6’x 2.5’) tabletop with a 5 foot maximum height off the table (ceiling height is only 8 feet). Large exhibits that stand on the floor are not allowed. No display may have loud music, audio or lighting that interferes with normal conversation, or is deemed problematic by conference management. No exhibit may have any flammable or hazardous materials, operating machinery or heavy equipment. Please direct any specific questions or concerns to IDA Headquarters – Telephone 614-797-2265, Email: tkane@superabrasives.org.

Please note: Every person attending to oversee a tabletop exhibit is required to register for the INTERTECH Conference for admission to the Hall.

Please indicate your selections:

___ YES, I want to reserve a tabletop for my company’s exhibit materials.

TOTAL AMOUNT ENCLOSED: $

METHOD OF PAYMENT
Indicate the method of payment and fill in the credit card information, if applicable.

___ Wire Payment – email IDA kathykgc@insight.rr.com for Banking information
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EMAIL, FAX OR MAIL BOTH PAGES OF COMPLETED FORM TO:

INTERTECH 2019 Tabletop Reservations
P.O. Box 29460 • Columbus, Ohio 43229 USA
Fax: 614-797-2264 • Email: tkane@superabrasives.org
INTERTECH 2019 PROMOTIONAL OPPORTUNITIES

Industrial Diamond Association of America, Inc.
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Sponsor listed in program and recognized on sign at conference event!

Check Sponsorship Requested – INTERTECH 2019
Email a PDF of company logo file for any of the below to: tkane@superabrasives.org

Yes, I want an Ad in Conference Program brochure (fill out form on page 2) .............................................................. $550 USD

Yes, I want to Sponsor Events (receptions, speakers, technical sessions) at INTERTECH 2019
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2. A/V Sponsorships (listed in conference room all 6 sessions) .................................................................................. $1250 USD
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Tel: ____________________ Fax: ____________________ Email: _____________________________________________________________

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YOU CAN REGISTER ON-LINE AT WWW.INTERTECHCONFERENCE.COM

PLEASE FILL OUT THE FORM BELOW FOR INTERTECH 2019 SPONSOR and fax to: 614-797-2264 or Email: tkane-ida@insight.rr.com (include file of company logo)

Company Name: _________________________________________________________________________________________________
Address: _______________________________________________________________________________________________________ City: ____________________
State: ____________________ Zip/Postal Code: ____________________
30 Word Company Description: _____________________________________________________________________________

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Industrial Diamond Association of America, Inc.
P. O. Box 29460
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Association of superabrasive and ultrahard material suppliers, tool manufacturers, component producers, machine tool builders, end users, educators and others related to the application, manufacture use and sales of superabrasives.

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Actual Sponsor ad size 2.5” high x 3.5” wide
INTERNATIONAL TRAVEL TO USA

As in the past, we are looking forward to a large contingent of International attendees traveling to New Orleans, Louisiana for INTERTECH 2019 and as much as possible, we will assist attendees in obtaining a Visa. Keep in mind the staff for INTERTECH has little or no influence or ability to "speed up" the process. That is all determined by the attendee’s country of origin and the US Embassy in that country. Advance travel planning and early Visa application are extremely important, since Visa applications are subject to a greater degree of scrutiny than in the past. It is recommended that requests for a travel Visa to the USA be submitted to your local embassy as soon as possible and at least 3-4 months before INTERTECH 2019.

DO YOU REQUIRE AN INVITATION LETTER FOR AVisa?

If you require a formal invitation letter for a Visa to enter the USA and attend INTERTECH 2019 please send an email request to tkane-ida@insight.rr.com and request an invitation letter. In this request you must provide: 1) The dates you will arrive and depart the USA; 2) Your full name; 3) Your company name; 4) Your job title; 5) Your complete mailing address; 6) Your email address; 7) Your Telephone number; 8) Your fax number; 9) Your passport number; and 10) The country of issue for your passport.

WEBITES FOR VISA INFORMATION

A citizen of a foreign country, wishing to visit the USA, generally must first obtain a Visa. If you go to the website: https://travel.state.gov/content/travel/en/us-visas.html you will find the Visa section for Temporary Visitors to the USA: https://travel.state.gov/content/travel/en/us-visas/tourism-visit.html This site is an official source of information about the United States of America (U.S.A.) Visa policy and procedures and can assist in explaining new Visa policies and procedures for visitors to the United States.

HOW LONG WILL IT TAKE TO OBTAIN A VISA?

Recent changes in U.S. laws governing Visa policy and procedures have increased the amount of time it can take to obtain a Visa. APPLY EARLY! Even with the Visa processing improvements that have been made and will continue to be made, it is inevitable that delays will sometimes occur. Processing times will vary. The State Department’s goal is Visa delivery no more than 30 days from the time of application in most cases, although cases that require administrative processing could take longer. Most administrative processing is resolved within 60 days of application. When administrative processing is required see: https://travel.state.gov/content/travel/en/contact-us/us-visas.html, the timing will vary based on individual circumstances of each case. Therefore, before making inquiries about status of administrative processing, applicants or their representatives will need to wait at least 90 days from the date of interview or submission of supplemental documents, whichever is later. If you want to visit the U.S. and require a Visa, plan to schedule your Visa interview well in advance of your departure date. Learn more by reviewing this website information and contact the U.S. embassy or consulate where you will apply for detailed “how-to” instructions.

QUESTIONS?

See “Questions about Visas” https://travel.state.gov/content/travel/en/us-visas/visa-information-resources/frequently-asked-questions/aboutbasics.html Please visit the news section on the travel Visa website for information on developments in USA Visa policy, press releases and more.
The New Orleans Hyatt Regency Hotel in New Orleans, Louisiana is just 12 miles from the Louis Armstrong International Airport, offering an outstanding venue with a central location of New Orleans. Adjacent to the Mercedes-Benz Superdome and Smoothie King Arena, the Hyatt makes it easy to explore New Orleans’ top attractions. Walk to Bourbon Street and the vibrant French Quarter. Take a few steps outside the hotel to Champions Square for special events. The Hyatt is moments from the best things to do in New Orleans.

Relax, work, and enjoy spectacular views of the city from the downtown New Orleans guest rooms near the French Quarter. The elegant guestrooms blend the historic Big Easy style with the modern conveniences of home, including 42” flat-screen TVs, iHome stereos with iPod dock, and complimentary Wi-Fi. The rooftop pool is a tranquil spot for an invigorating swim and the perfect place to relax, get some sun and enjoy lunch. The rooftop pool and bar offer wonderful food, drinks and panoramic views of the heart of New Orleans. A 24 hour, state–of-the-art work out center is equipped with spin, free weight, elliptical, and cardio equipment. Work up a sweat while looking onto the city. Uniquely positioned on the hotel’s 32nd floor, the fitness center overlooks the Mercedes-Benz Superdome and features expansive views of the Crescent City. There is an on-site FedEx Office® Print & Ship Center that offers the critical business services you need to make INTERTECH 2019 a success. Posters, banners, copying, printing, packing and shipping, direct mail or last-minute office supplies, you are covered. Shipping a package to the hotel, FedEx Office also handles all inbound guest parcels.

Eight unique dining outlets serve a variety of locally sourced and regionally inspired cuisine. Enjoy creative sushi dishes or a mouthwatering burger at Vitascope Hall or dine at the 8 Block Kitchen & Bar, featuring delicious fusion of farm-to-table cuisine. Sip in style and enjoy panoramic views of the Big Easy at the Bywater Pool Deck & Bar, or enjoy a cold beer and quick bite at Borgne. If you want to dine in privacy, order famous New Orleans cuisine from the comfort of your room with 24-hour in-room dining.

The Industrial Diamond Association of America welcomes the world to INTERTECH 2019 at the Hyatt Regency New Orleans

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TO MAKE YOUR HOTEL RESERVATIONS GO TO:

The New Orleans Hyatt Regency Hotel is just 12 miles from the Louis Armstrong International Airport, offering an outstanding venue with a central location of New Orleans. Adjacent to the Mercedes-Benz Superdome and Smoothie King Arena, the Hyatt makes it easy to explore New Orleans’ top attractions. Walk to Bourbon Street and the vibrant French Quarter. Take a few steps outside the hotel to Champions Square for special events. The Hyatt is moments from the best things to do in New Orleans.

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THE CITY OF NEW ORLEANS ATTRACTIONS

New Orleans is one of the top ten most-visited cities in the United States. A recent poll of “America’s Favorite Cities” ranked New Orleans first in ten categories, the most first-place rankings. New Orleans also ranked second for friendliness, hotels/inns, and is world famous for ethnic food. New Orleans is a significant center for music, showcasing its intertwined European, Latin American, and African cultures. The city’s unique musical heritage was born in its colonial and early American days from a unique blending of European musical instruments with African rhythms. Attendees at INTERTECH 2019 will find an exceptional combination of technological advancements and fabulous sightseeing!
Aquarium of the Americas
0.9 MI / 1.5 KM AWAY
Dive into a world of fascinating aquatic life and see everything from penguins and sea turtles to a vibrant Caribbean coral reef. The Audubon Aquarium of the Americas houses exotic marine life and an amazing walk-through aquarium tunnel.

Audubon Zoo and Museum Complex
5.3 MI / 8.48 KM AWAY
A landmark in New Orleans, Audubon Zoo and Museum offer a mix of animals from around the world, interactive animal encounters, educational programs and beautiful gardens. The zoo highlights natural coastal Louisiana habitat, such as the Jaguar Jungle and Louisiana Swamp exhibits.

Bourbon Street
1.5 MI / 2.35 KM AWAY
Bourbon Street is a lively and colorful promenade in the heart of the French Quarter. Known for its New Orleans bars, clubs, jazz, and music venues and Cajun food, Bourbon Street is a vibrant streetscape that gives a deep look into the soul of New Orleans.

French Quarter
1.4 MI / 2.23 KM AWAY
The oldest neighborhood in the city offers classic restaurants, music venues, boutique shopping and voodoo temples. Some of the most popular areas include Royal Street, Chartres Street, Jackson Square, Bourbon Street and the French Market.

Frenchmen Street
3.6 MI / 5.84 KM AWAY
Frenchmen Street is home to the Crescent City's most popular music venues, including The Maison and Snug Harbor. In addition to the many bars and restaurants, Frenchman has become a favorite locals' destination with music and food that truly authentic.

Ogden Museum
0.9 MI / 1.45 KM AWAY
The Ogden Museum is home to the largest collection of Southern art in the world, as well as home to the Center for Southern Craft and Design, featuring one-of-a-kind pottery, glass, jewelry, wood, fabric and metal items by Southern artisans.

Contemporary Arts Center
0.8 MI / 1.33 KM AWAY
This downtown arts complex is dedicated to modern and contemporary art with a focus on recent developments in painting, sculpture, photography, architecture, and performance art.

New Orleans Museum of Art
4.7 MI / 7.6 KM AWAY
The New Orleans Museum of Art is New Orleans’ oldest fine art museum, now housing over 40,000 works of art with emphasis on French, American, Japanese, and African art, as well as pottery, photography and glass artwork.

The National WWII Museum
0.9 MI / 1.4 KM AWAY
The National WWII Museum features immersive exhibits, multimedia experiences, and an expansive collection of artifacts and first-person oral histories, taking visitors inside the story of the war that changed the world.

The Shops at Canal Place
0.9 MI / 1.51 KM AWAY
An exclusive shopping destination, located in the heart of the city at the foot of historic Canal Street, with a variety of retailers and fine shops as well as theaters.

The Riverwalk
1.0 MI / 1.68 KM AWAY
Featuring over 75 retailers and restaurants on the Mississippi river, the Outlet Collection offers a unique experience for shoppers.

Magazine Street
3.2 MI / 5.07 KM AWAY
Take a stroll and go shopping in New Orleans's Garden District where you'll find antique shops, design studios, restaurants, and offbeat clothing stores. Most notable you can enjoy and old-world barbershop with hot towel shaves.

Royal Street
2.7 MI / 4.41 KM AWAY
Dating back to the French Colonia era, Royal Street is one of the oldest streets in New Orleans. Royal is in the heart of the French Quarter tourist district and is best known for its many art galleries and antiques shops.
APRIL 29 – MAY 2, 2019
AERODEF
Long Beach Convention Center
Long Beach, California USA
http://aerodefevent.com

MAY 6-9, 2019
Offshore Technology Conference (OTC)
NRG Park
Houston, Texas, USA
http://2019.otcnet.org/

MAY 7-9, 2019
FABTEC
Cintermex
Monterrey, Mexico
https://mexico.fabtechexpo.com/

MAY 13-16, 2019
INTERWIRE 2019
Georgia World Congress Center
www.interwire19.com

MAY 29, 30 & 31, 2019
Hyatt Regency New Orleans
INTERTECH 2019
New Orleans, Louisiana USA
www.intertechconference.com

JUNE 4-6, 2019
Western Manufacturing Technology Show
Edmonton EXPO Centre, Edmonton AB
https://wmts.ca/

JUNE 10-14, 2019
North American Manufacturing Research Conference
Penn State Behrend’s School of Engineering
Bayfront Convention Center, Erie, PA

JUNE 12-13, 2019
Amerimold 2019
Donald E. Stephens Convention Center
5555 N. River Road • Rosemont, IL USA
847-692-2220
https://www.amerimoldexpo.com/

AUGUST 27-29, 2019
Additive Manufacturing Conference 2019
Austin Convention Center
Austin, TX USA
https://www.additiveconference.com/

SEPTEMBER 23-26, 2019
CAMX Composites and Advanced Materials Expo
camx.org
Anaheim Convention Center
800 W. Katella Avenue
Anaheim, CA
7147654311
anaheim.net

SEPTEMBER 30 – OCTOBER 3, 2019
Canadian Manufacturing Technology Show (CMTS) 2019
Mississauga, ON Canada

OCTOBER 22 - 24, 2019
SOUTHTEC 2019
Greenville, SC

OCTOBER 30-31, 2019
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To have your event or conference listed, please send information to: Finer Points Event Calendar • P.O. Box 29460, Columbus OH 43229 • Fax 614-797-2264 or email: tkane-ida@insight.rr.com

FINER POINTS
INTERTECH Registration Packet & Conference Details
THE NATIONAL RESEARCH COUNCIL OF CANADA AND FIVES JOIN FORCES
The National Research Council of Canada and Fives join forces to develop inspection technology for the Aerospace Sector, licensing the next generation of surface profilometer for in-process inspection. As the aerospace industry in Canada and around the world continues to increase its use of automated composite manufacturing techniques to produce large aircraft components, the industry is eager to find solutions to manufacture reliable, safe, and cost-effective composite structures. The National Research Council of Canada (NRC) and Fives are working together to improve the efficiency of manufacturing composite parts. They are developing an advanced profilometer that will provide faster and more accurate part inspection. Based on an innovative optical technology, the advanced profilometer for composite placement shows considerable advantages over existing inspection technologies. For more information visit www.fivesgroup.com

LK METROLOGY, INC INTRODUCES NEW 5-AXIS MULTI-SENSOR CMM FOR INSPECTING COMPLEX COMPONENTS
LK Metrology, Inc. has introduced a new ALTERA CMM called the SCANtek 5™, that is coupled with Renishaw’s REVO-2 scanning system and multi-sensor technology to offer manufacturers a powerful 5-axis solution for inspecting dimensional accuracy and surface finish of components. The ALTERA SCANtek 5 features a ceramic construction of the CMM beam and spindle, which combines optimal stiffness-to-weight ratio for exceptional responsiveness with mechanical and thermal stability for consistent performance across all manufacturing environments. Visit: www.lkmetrology.com

OMRON LAUNCHES FHV7-SERIES SMART CAMERA WITH WORLD’S FIRST MULTI-COLOR LIGHT AND HIGH RESOLUTION IMAGE SENSOR
The brand-new FHV7-series smart-camera features the world’s first multicolor light alongside a range of best-in-class image sensors. This unique technology is designed to achieve the industry’s highest standards of precision in vision inspections on high-mix production lines. Manufacturers face the need for stricter quality control checks in order to maintain and improve product quality and safety while promptly identifying the causes of defects. The FHV7 smart camera is designed to help manufacturers meet these inspection needs while minimizing downtime for product changeover. Learn more at omron247.com

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TRAVEL INFORMATION

INTERTECH 2019

to be held at:

601 Loyola Avenue
New Orleans, Louisiana, United States, 70113
Telephone: +1 504 561 1234

INTERNATIONAL TRAVEL

INTERTECH attendees should schedule their flights into Louis Armstrong New Orleans International Airport (MSY) – 19.3 km / 12 mi from the Hyatt Regency New Orleans

Louis Armstrong New Orleans International Airport (MSY) is the gateway to one of the most exciting cities in the world - New Orleans, legendary for its history, food and good times. Armstrong International Airport provides a user-friendly environment that welcomes millions of travelers each year from around the world.

LOCAL TRAVEL

TAXICABS: Taxicab booths are located on the first level of the Terminal outside of Baggage Claim Belts 1 and 14. Passengers must wait in line at one of these booths for taxi service. Taxi rides cost $36.00 from the airport to the Central Business District (CBD) or French Quarter (west of Elysian Fields) for up to two (2) passengers. For three (3) or more passengers, the fare will be $15.00 per passenger. Taxis are required to accept credit card payments.

AIRPORT SHUTTLE: Shuttle service is available from the airport to the Hyatt Regency and other locations in the New Orleans for $24.00 (per person, one-way) or $44.00 (per person, round-trip). These fares include three (3) bags per person. Additional baggage may be subject to additional fees. Passengers can purchase tickets at the Airport at Shuttle ticket booths located on the first level throughout the Baggage Claim area.

AIRPORT LIMOUSINES: A-Airport Limousine is the official luxury transportation service provider for Louis Armstrong New Orleans International Airport. Passengers can request service at one of the A-Airport Limousine’s convenient kiosks located in the Baggage Claim area. Rates range from $58 for two (2) passengers to $118 for eight (8) passengers. Rates depend on the number of passengers and the type of vehicle. Please visit the ticket booths on the first level of Baggage Claim. Please visit www.airportlimousineneworleans.com for more information or call 504-305-2450.

MASS TRANSIT: Public mass transportation from the airport to downtown New Orleans is now easier than ever. Today, the Jefferson Transit Authority (JET) and the Regional Transportation Authority (RTA) provide nine (9) daily departures to downtown New Orleans. Both utilize the bus stop located on the outer lanes of the second floor, outside the Concourse C Lobby Information Booth. The Airport-Downtown Express (E2) Bus operated by JET is $2.00. The fare boxes will accept $1, $5, $10, $20 dollar bills and all U.S. coins. The Airport-Downtown Express (E2) provides service from the Louis Armstrong New Orleans International Airport in Kenner, down Airline Drive into New Orleans, which takes approximately fifty (50) minutes. For more information on public transit in the area, visit the Jefferson Transit website www.jeffersontransit.org.

TRANSPORTATION NETWORK COMPANIES: Uber and Lyft offers transportation services from the Airport. Passengers can meet their app-based ride service outside of the Ground Transportation Center located on the first floor of the Short-Term Parking Garage by crossing the pedestrian crosswalk located outside of Baggage Claim 6. Visit: https://www.uber.com/airports/msy/ for Uber.

CAR RENTAL: The Consolidated Rental Car Facility (CONRAC) is located a short walk away from the main terminal. Passengers should exit the Baggage Claim area (first level) near Belts 12-14 and continue to the right down a covered walkway to the CONRAC. Nine (9) rental car companies currently operate at the airport. For contact information for these companies, please visit http://www.flymsy.com/rentalinformation.

DRIVING TO HYATT REGENCY NEW ORLEANS: Use the Hyatt Regency New Orleans for your GPS: 601 Loyola Avenue, New Orleans, Louisiana, United States, 70113
INTERTECH 2019
Abstract & Paper Deadlines, Requirements & Guidelines

All papers must adhere to the following guidelines for final acceptance as an oral presentation. The deadlines listed are critical due to the fact that all presentations and papers (Proceedings) will be loaded onto thumb drives and handed out to attendees of INTERTECH 2019.

1. ABSTRACTS ARE NOW BEING ACCEPTED
   a. Abstracts can be submitted on-line at www.intertechconference.com or submitted by email to: tkane-ida@insight.rr.com. They may also be mailed to INTERTECH 2019 Abstract - P.O. Box 29460 - Columbus, Ohio 43229 USA
   b. All abstracts will be assigned a conference reference number (1901-1999) and the submitter will be notified by email of receipt. All further correspondence must reference this assigned number.
   c. Abstracts will be reviewed by the INTERTECH Technical Advisory Committee (TAC)
   d. After review each submitter will receive one of four notifications:
      i. Paper accepted for final presentation
      ii. Paper will be accepted with recommendations
      iii. Paper will only be considered if a new abstract is submitted with changes by review committee included
      iv. Paper refused as inappropriate for INTERTECH – Submitter may choose to submit a new abstract

2. AFTER ABSTRACT ACCEPTED & APPROVED, THE FULL WRITTEN DRAFT OF PAPER IN MICROSOFT WORD MUST BE RECEIVED BY THE REVIEW COMMITTEE PRIOR TO MAY 1, 2019. They may be emailed to INTERTECH 2019 Paper # (include reference #) to: tkane-ida@insight.rr.com. They may also be mailed to INTERTECH 2019 Paper # (include reference #) - P.O. Box 29460 - Columbus, Ohio 43229 USA. If Paper is being mailed on a CD or thumb drive they can be mailed to JKane Global Communications, 6081 Central Park Drive, Columbus Ohio 43231 USA.
   
3. If paper is declined for content or appropriateness for this conference, suggestions or recommendations by the committee for paper clarification will be sent back to the author at that time.

4. FINAL DRAFT (IN WORD) ALONG WITH YOUR POWERPOINT PRESENTATION WITH GRAPHICS AND PHOTOS MUST BE SENT BY EMAIL, ON A CD OR USB FLASH DRIVE BY MAY 10, 2019 TO: INTERTECH 2019 CONFERENCE, 6081 CENTRAL PARK DRIVE, COLUMBUS, OHIO, 43231 USA. You may also email using a large file electronic program such as HighTail. If the file is too large, or email cannot, they may be emailed to INTERTECH 2019 Paper # (include reference #) to: tkane-ida@insight.rr.com.
   
5. Make sure your name, title, any contributors or coauthors as well as the INTERTECH 2019 reference number are included with the CD or USB Flash Drive. Your paper and presentation will be loaded into the Conference computers for projection. You are also advised to bring a backup file in case there is a problem with the one you mail.

6. Multiple contributors may be listed on the paper, but the first person listed will be considered the presenter for the INTERTECH 2019. Additional contributors for the paper will be listed in the conference proceedings so they will only become coauthors.

7. English will be the language for all materials and oral presentation. Papers need to be written in English and we ask that a person with an excellent command of English or English as their first language review the paper prior to submission for accuracy of terminology. We also request that all presenters have an excellent command of English, or English is their first language, so they are easily understood by the audience.

8. Time allotted for each paper will be approximately 45 minutes, 30 minutes for the formal presentation and 15 minutes for questions.

9. Please write paper using the third person to avoid commercialization and improve the credibility of the paper.

10. It is preferred that instead of “I found”, “we studied”, “my results”, “our company developed a process” and similar terminology, the paper be written and stated in terms of “it was found”, “studies were made”, “the results were” or “a process was developed”. 

11. Advantages of product use or development in terms of productivity, savings or performance must be shown in all papers. Projected or proven examples should be included.

12. Graphics should be clear and easy to read from the back of a large room, please use bullets and avoid too much text. When designing your slides it is better to have more slides with less text in a larger font, instead of fewer slides with more text in a small font. If you cannot read the text clearly on a computer screen in “normal slide view” the audience will not be able to read it either.

13. Photographs of applications, products, parts, etc. MUST be included wherever possible. Due to the many languages spoken by attendees, photos and graphics add clarification and understanding to the presentation. This helps the audience understand many of descriptions, products and applications.

14. Trade names must not be used for any products featured in the presentation and no company reference (except in terms of end use, such as General Motors, Boeing, Ford and the like) should be used in the presentation.

15. Company logos, titles, etc. of presenters and their company may only be on the introductory slide/graphic and not used through the presentation or on every slide. This makes the paper look too commercial. If you are speaking about your company’s machine in a given operation, the photos should try to avoid showing logos or company names.

16. Text must be composed in Microsoft Word with indication of where graphics will be used. Graphics, photos and charts for presentation support must be created and submitted in Microsoft PowerPoint. This is being done to keep uniformity of the presentations and to allow for preloading of all presentations into the conference computer systems. Conference computers will be PCs loaded with Microsoft Office and will not open other programs.

17. Overhead projectors or 35 mm slide projectors will not be provided. All presentation graphics/slides and photos will be shown on computer projection systems. If a presenter requests overviews, or another form of graphic support, they will need to submit a request in writing to the Program Review committee c/o Industrial Diamond Headquarters P.O. Box 29460, Columbus, Ohio 43229 by April 1, 2019 or email: tkane-ida@insight.rr.com.

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Please contact Terry Kane, INTERTECH 2019 Conference Chairman - Telephone: 614-797-2265 or Cell: 614-425-0712. Email: tkane-ida@insight.rr.com with any questions or points for clarification.

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2019 is a big year for Fives Giddings & Lewis as it celebrates its 160th anniversary. What started in 1859 as a lumber equipment job shop has grown with the demands of the markets, touching several industries along the way. In 1902 we began producing machine tools, starting with engine lathes and boring mills. During WWI and WWII a large portion of the business for the military took first priority. In 1955 the first commercially available CNC was created in partnership with MIT. The company has been part of the Fives Group since 2013. www.fivesgroup.com

BELL HELICOPTER IS TEAMING WITH ROLLS-ROYCE TO DEVELOP AN OPTIMIZED PROPULSION SYSTEM

And continued risk reduction efforts aimed at the V-280 Valor and V-247 Vigilant advanced vertical lift platforms. The collaboration will focus on the integration of Rolls-Royce’s advanced propulsion systems into future Bell aircraft. “The goal of this collaboration is to further enhance the performance and affordability of our aircraft. Future Vertical Lift programs bring revolutionary solutions for warfighters; Bell and Rolls-Royce are focused on delivering those capabilities,” said Keith Fiall, vice president of Advanced Vertical Lift Systems at Bell. This agreement extends Bell’s support for the U.S. military’s aviation modernization and acquisition priorities. Building industry relationships delivers options to rapidly mature technology and capabilities. To read full article go to: https://www.aerospacemanufacturinganddesign.com/zarticle/bell-rolls-royce-advanced-propulsion-systems-032619/

BOEING RECEIVES $2.4 BILLION P-8A POSEIDON CONTRACT FROM U.S. NAVY

The contract includes 10 aircraft to add to the current inventory of P-8As in the U.S. Navy fleet, all five jets currently under contract for Norway and the four aircraft remaining for the existing United Kingdom contract, bringing the total United Kingdom acquisition to nine aircraft. The United Kingdom and Norway are acquiring the Boeing aircraft through the Foreign Military Sales process and will receive a variant designed and produced for the U.S. Navy called the P-8A Poseidon. The United Kingdom will receive their first aircraft in 2019 and Norway will begin receiving aircraft in 2021. With more than 180,000 flight hours to date, P-8 variants, the P-8A Poseidon and the P-8I, patrol the globe performing antisubmarine and anti-surface warfare; intelligence, surveillance and reconnaissance; humanitarian; and search and rescue missions. For more information on Defense, Space & Security, visit www.boeing.com

SUNNEN BRINGS BTA HELLER DIVISION TO ST. LOUIS

Sunnen Products Company is relocating its BTA Heller division to the Sunnen headquarters in St. Louis, MO. Sunnen’s acquisition of BTA Heller last year created a unique solution for shops looking for complete bore creation-to-finishing capabilities. Sunnen, the world’s largest vertically integrated manufacturer of honing systems for precision bore sizing and finishing, added BTA’s deep hole tooling and systems for primary hole generation. The move will facilitate further development of tooling, systems and processes, as the companies build on natural synergies to offer single-source bore creation and finishing solutions. For additional information: www.sunnen.com.
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