

# WAPA

WORLDWIDE AIRCRAFT PROPELLER ASSOCIATION

## 2017 Annual Conference

12<sup>TH</sup> – 14<sup>TH</sup> NOVEMBER ° MGM GRAND HOTEL ° LAS VEGAS, NV



36.1026° N, 115.1703° W

EARTH ° SOL ° MILKY WAY ° VIRGO SUPERCLUSTER ° LANIAKEA LOCAL GROUP

# The Worldwide Aircraft Propeller Association officially formed in 1992

We promote and maintain a cooperative spirit between repair stations certified to maintain propellers under 14 Code of Federal Regulation Subsection 145, their suppliers and customers. We encourage high standards of professionalism among the members of the Association and the aviation propeller maintenance industry. We disseminate information and offer continuing education training of the highest quality to the aviation propeller maintenance industry. We pledge to alert the aviation propeller maintenance industry of any regulatory or legislative activities that may affect the conduct of their business. We provide a forum for and endorse the exchange of technical support information to and between members of the aviation maintenance industry. WAPA will present a unified voice to undertake any and all activities on behalf of the aviation propeller maintenance industry permitted under the laws of the District of Columbia.



## **Training and promoting safety for the entire propeller community**

The annual WAPA conference has long been the only meeting open to ALL members of the propeller community – major manufacturers, repair stations, experimental propeller makers, industrial suppliers, PMA manufacturers, special service providers, and the list goes on. We accomplish safety and education through practicing inclusiveness. Regardless of size, background or affiliation, all are welcome at the WAPA conference and encouraged to apply for membership.



## **Recognition for great contributors to our propeller family**

Beginning in 2017, WAPA offers a special appreciation gift for those great aviators who have contributed so much to our industry – most behind the scenes. To inaugurate our first year we celebrate the 100<sup>th</sup> birthday of Chester A. Heth, our 2014 conference keynote speaker. Who do you know deserving of this honor? Please let us know, maybe you will introduce the 2018 recipient for WAPA.



## **Smithsonian Air & Space and National Museum of the USAF Walls of Honor**

In observance of Chet's contributions to the propeller industry WAPA, on behalf of all members, sponsored commemorative plaques noting Chet's name and just a few of his accomplishments at both the Smithsonian Air & Space and Wright-Patterson National Museum of the USAF. Check out their websites for details on the presentation. Chet was truly moved by the honor and sent a hearty thank you. He noted that his WAPA welcome in Reno was one of the best accolades he's received.



## **Promote the propeller industry and see it from all aspects**

WAPA members know the best way to see all the changes in the aviation industry is to meet folks, talk about their objectives and businesses, and to share ideas. We want all members not just to survive the shifting aviation landscape, but to thrive and soar in the new opportunities presented. At a WAPA conference you can talk to repair stations about specific service issues or get answers to that nagging question you carried around for 10 years from our expert educators. As a manufacturer you can talk to potential suppliers or receive invaluable field reports from the folks in the trenches. All of us win when we share what works for us and find support for what drives us nuts.



## Sponsorship Opportunities

The Worldwide Aircraft Propeller Association recognizes your commitment to our Annual Conference. Join today. We promote and publicly recognize all our sponsors at all levels .

### Conference Sponsors Receive

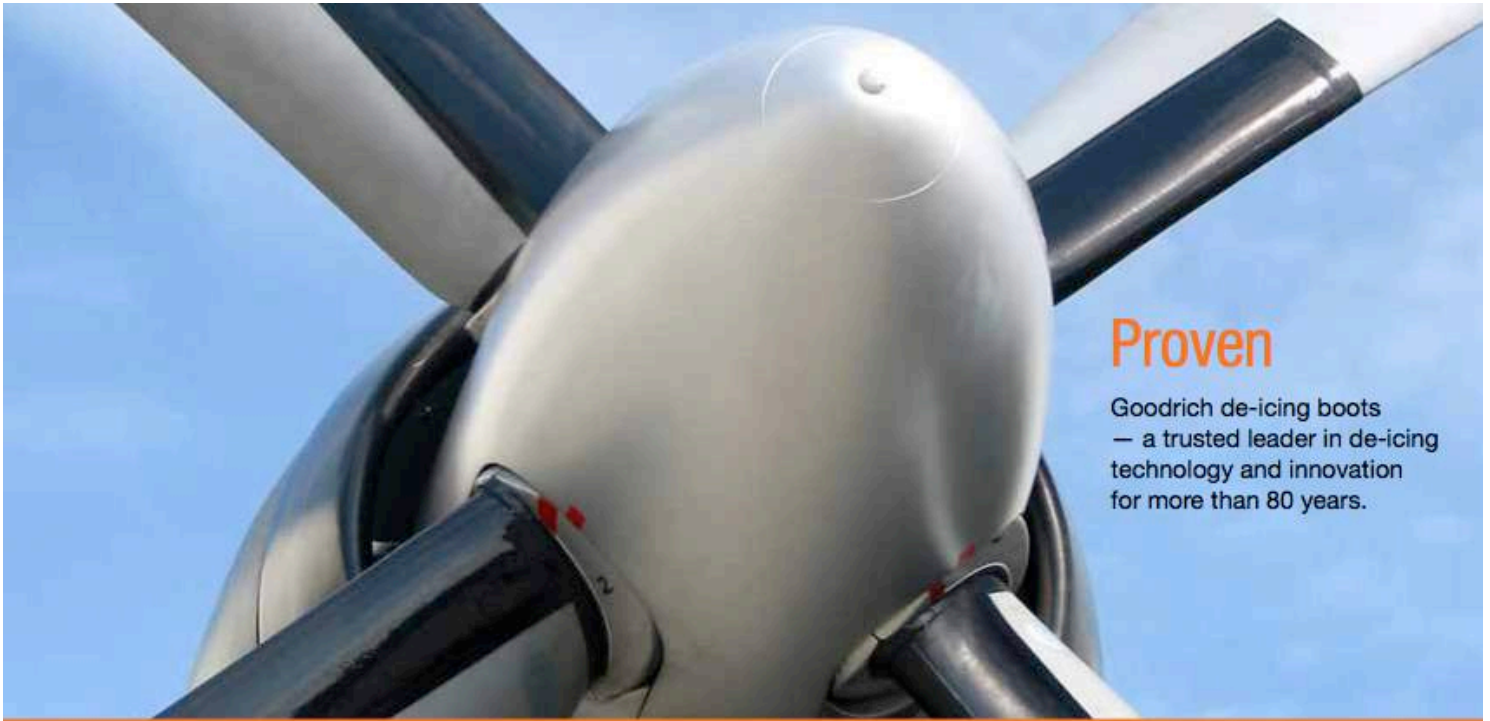
Special THANK-YOU and recognition for supporting WAPA throughout the meeting. Acknowledgement and custom artwork to credit your company sponsored event! Banner advertising at the WAPA website and WAPA social media platforms. We include the promotional materials of your choice in the WAPA Conference Program – the BIG Show Book celebrating the conference and its details. Access to the largest gathering of propeller shops to promote your company, your vision for our industry, to provide product support, educate your sales force, introduce strategies and simply express your thanks to all the folks who make your business possible.

**BRONZE LEVEL SPONSORSHIP** - \$1250, includes one Associate Member fee, conference attendance for two PLUS: Recognition and appreciation for providing refreshments during a Conference Break or a shared conference event.

**SILVER LEVEL SPONSORSHIP** - \$2250, includes one Associate Member fee, conference attendance for three PLUS: Recognition and appreciation for providing refreshments during Lunch, two Conference Breaks, or a shared combination of conference events.

**GOLD LEVEL SPONSORSHIP** - \$3500, includes Associate Member fee for entire company including internal Service Centers, conference attendance for four PLUS: Recognition and appreciation for providing refreshments during a Conference Breakfast, Lunch, Cocktail Party or the conference events/shared event of your choice.

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— a trusted leader in de-icing  
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for more than 80 years.

# Goodrich Propeller De-Icers

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UTC Aerospace Systems is a pioneer and leading provider of critical ice protection solutions for all-weather operation. In 1932, Goodrich developed the first commercial pneumatic ice protection system for the Northrop Alpha mail plane. We continue to build on our extensive background—applying new de-icing technology to already proven products.



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[goodrichdeicing.com](http://goodrichdeicing.com)

### Safety

- Fully tested and FAA certified

### Experience

- Expertise in aircraft de-icing for more than 80 years

### Support

- Comprehensive support
- Installation services

Where ingenuity takes off™



**UTC Aerospace Systems**

# Goodrich Propeller De-Icers



Propeller De-icers



Quick Disconnect System



Brush Block



Slip Ring

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UTC Aerospace Systems tests, manufactures and supports virtually every component of propeller de-icing systems: de-icers, slip rings, brush blocks, timer, timers with current monitor, wire harnesses, ammeters and all other related hardware.

## Complete engineering design

From system concept to field application, UTC Aerospace Systems does it all. Our complete system engineering assures integral compatibility of all components in the de-icing system.

## Time tested, proven quality

As the global choice of most leading airframe and propeller manufacturers, UTC Aerospace Systems is the world leader in the supply of propeller de-icing systems.

## Continuous innovation

UTC Aerospace Systems continues to provide product innovations in design, provisioning and support of our propeller ice protection products. Our approach is to provide functional form to innovative ideas such as our Quick Disconnect System (QDS). Ask if QDS is available for your aircraft.

## Worldwide product and technical support

Our philosophy is simple—we make it, we support it. One toll-free call (+1 800-DEICERS) gives UTC Aerospace Systems customers and manufacturers, as well as end-users, our total attention. Direct access to our engineers and 24-hour availability of parts through distribution fulfills our commitment to comprehensive support.



UTC Aerospace Systems

### For additional information:

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**UTC Aerospace Systems**

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# WAPA 2017 Annual Conference

Sunday, 12 November 2017

6 – 9pm Conference Registration and Cocktail Party hosted by WAPA

Monday, 13 November 2017

6:30 – 8:30am **MT Propeller** Big Breakfast to kick-off the conference!

7:30 – 9am Gerd Muehlbauer, **MT Propeller** Product Support – review new STC's and installations, technical publications, customer support issues, field service and overhaul processes. Discussion with questions and answers period to follow.

Gerd Muehlbauer is CEO, Owner, President, Founder and General Manager of **MT-Propeller Entwicklung GmbH**, Atting, Germany, BS Mechanical Engineering. Gerd is the founder of **MT Propeller** and engineered **MT's** early prop designs. He, personally, designed at least 50 different props for **MT Propeller**, most of which are certified. Gerd launched **MT Propeller** in 1981. Gerd also owns **AVIA Propeller**, a company established in 1919, purchased 1999 from Hamilton Standard. This company makes only metal propellers and governors.



## MT Propeller founded in 1981

by Gerd Muehlbauer and is well known in the world of general aviation as the leading manufacturer of natural composite propellers for single and twin engine aircraft and many other special applications.

1981: founded by Gerd Muehlbauer

1983: introducing of hydraulically controlled variable pitch MT-Propellers

1985: introducing of electrically controlled variable pitch MT-Propellers

1990: design, certification and patent of the innovative hydraulic reversing propeller system

2003: option of conventional aluminum blades for certain applications

2004: introducing of light weight and small hydraulic propeller governors

2005: artificial composite blades for certain propeller models, 5-blade turboprop for PC-12 introduced

2011: MT-Propeller certified on Part 25 aircraft

2013: the 5000th blade was shipped

2016: first flight of the 7-blade Propeller for GA Turbo Prop aircraft

2017: the 2000th constant speed propeller delivered

# The Winner's Propeller!



- **35** years since first produced MT-propeller
- More than **210 STCs** worldwide
- **130 million fleet hours** on MT-Propellers
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- **30** certified propeller models
- **62 service centers** worldwide
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- Best weight to price ratio in the industry
- **OEM supplier** for more than 90% of the European Aircraft Industry as well as 30% of the US Aircraft Industry



e-mail: [sales@mt-propeller.com](mailto:sales@mt-propeller.com)  
[www.mt-propeller.com](http://www.mt-propeller.com)

## mt-propeller

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Tel.: +49 (0)9429-94090, Fax: +49 (0)9429-8432

# WAPA 2017 Annual Conference

Monday, 13 November 2017

9 – 10am Leon Stewart, **APSCO** – parts distribution and information for all product lines including service specifics for Ontic (Woodward) Reciprocating Governors and parts.

Leon Stewart is VP Business Development and Sales, **APSCO** for the last 4 years, 40 years in aviation (both military and commercial markets) with roles in maintenance, production, quality, technical management, engineering, program management, business development and sales. Stewart has held executive level positions at MRO and OEM distribution companies. He is a BS Aviation Management and Mathematics from Air Force Institute of Technology, A&P, Member Society of Logistics Engineers and Master Black Belt in Six Sigma/LEAN.

10 – 11am **Action Aero, Bailey Propeller Parts & Falcon Insurance** sponsored break. 15 minutes, TBA.

10 – 10:15am Mark Mathews, WAPA Board member - welcomes everyone to Las Vegas

10:30 – 12pm Glenn Gathright, Sarah Hughes, OAK FSDO, **FAA Safety Team** - Promoting safety processes and knowledge base in repair stations and for the field.

Glenn Gathright is **FAA**Team Program Manager, Oakland FSDO, Aviation Safety Inspector, A/W, Gathright has been with FAA Flight Standards 22 years. Sarah Hughes is **FAA**Team Program Manager, Oakland FSDO, Aviation Safety Inspector, Ops, FAA Flight Standards.



**APSCO**

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APSCO believe that if you always put the customer's needs first, you will achieve a loyal following. For more than fifty years, we have been doing just that. Our mission is to cultivate our relationship by providing exceptional customer service at a fair price. We will further demonstrate our commitment to you through the values we practice – integrity, honesty, responsibility, service, and performance. We are thrilled to have you as a new customer and look forward to the opportunity to not only meet your needs, but more importantly, to **EXCEED** them!

**APSCO is a Factory Authorized Distributor for the following OEM's:**

**EATON:** Pratt & Whitney PT6, JT15D, & Rolls-Royce M250 small turbine engine fuel pump piece parts

**HONEYWELL:** Exclusive global distributor of fuel controls for the following platforms: PT6, T-56, LTS101, RR250, & RR300. We also take pride in offering "value added services" such as customized kitting solutions at no additional charge

**ONTIC:** A diverse number of legacy product lines now licensed to and manufactured by Ontic. This includes items licensed from Hamilton Sundstrand, Woodward, Honeywell, and Securaplane

**SKURKA:** The largest stocking distributor for Skurka starter generator units, spares, and generator control units in the world. We offer an "exchange for new" starter generator program where we will exchange your unit for a factory new one at a substantial discount

**TRIUMPH:** Spare parts for military, commercial, and business aviation fuel accessories such as Main Fuel Pumps, Afterburner Pumps, Ejector Pumps, Flow Dividers, Start/Flow Valves, and Ecology Tanks for the following platforms: PW100, PT6, PW300, CF34, JT15D, J85, ALF502



**Here are some key contacts  
for your reference:**

General Sales, RFQs, and most other inquiries:  
[Sales@apscomiami.com](mailto:Sales@apscomiami.com)

Accounting Department:  
[Nancy@apscomiami.com](mailto:Nancy@apscomiami.com)

Quality Department:  
[Kcrowley@apscomiami.com](mailto:Kcrowley@apscomiami.com)

President:  
[Sheri@apscomiami.com](mailto:Sheri@apscomiami.com)



*... the right relationship is everything*

APSCO's inventory is listed on the following major parts locating services:



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Aviation Supply Chain Solutions



StockMarket.aero

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# TOP 10 REASONS

**why you should make APSCO  
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**We have advanced forecasting tools to enable us to properly plan ahead**

**We offer export control expertise**

**You can log on to our website and try out our search capabilities for stock availability**

**We take pride in offering "Value Added Services" such as customized kitting at no additional charge**

**APSCO is ISO 9001:2008 certified and our president sits on the board of the Aviation Suppliers Association**

**APSCO's relationship with OEM's dates back to Alliedsignal and Bendix**

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**Customer service is not a department; it's everyone's job**



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ON HONOR

Monday, 13 November 2017

12 – 1pm

**Hartzell Propeller** - welcomes WAPA Members to the American Southwest with a regional Lunch

1 – 3pm

Dean Ward and Gary Chafin, **Hartzell Propeller** Product Support – review of installations, new and revised technical data, customer service update. Discussion with questions and answers to follow.

Dean Ward, Manager, Parts Distribution Group, **Hartzell Propeller**, Piqua, OH. Ward has 30+ years with the Hartzell family, has been responsible for production, product support, quality and service, most recently served as a Manager of Customer Service at the **Hartzell Service Center**. Ward's team is responsible for Aftermarket Sales and Customer Service, Forecasting, Export Compliance, Shipping and the **Hartzell Service Center**. His WAPA presentation consists of application specifics and known issues thereof. Ward has presented at WAPA conferences over 20+ years on specific airworthiness issues, materials and parts changes, exporting issues, new processes, product information, inspection changes, and new or noteworthy items to Hartzell technical publications, etc.

Gary Chafin, Vice President of OEM Sales and Product Support, **Hartzell Propeller**, Piqua, OH. Chafin has 30+ years with the **Hartzell** family, worked in factory repair, airline support, and product support groups before taking the helm of OEM sales. Chafin is also a former USAF Crew Chief, Private Pilot, Propeller Repairman and experimental aircraft builder.



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A propeller conversion is one of the smartest investments you can make for your aircraft. Hartzell Propeller Top Prop STC Conversions allow you to upgrade to our innovative new designs featuring scimitar blades, blended airfoils, and rugged structural composite materials. We're pushing the limits of technology. Prepare for take-off.

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Monday, 13 November 2017

2:30 – 4pm

**Hoffman Propeller, Propeller Parts Market & Reliance Machine** sponsored break. 15 minutes, TBA.

3 – 4:30pm

**Danny Ball, Textron Aviation-McCauley Engineering** – review of design fundamentals and elements of certification

Danny Ball is the Lead for Engineering Advance Design “Blackworks” Group at **McCauley Propeller Systems**, 17 years industry experience, B.S., Aerospace Engineering, Wichita State University. The Blackworks group specializes in short duration product and process development including several active military and general aviation aircraft propeller applications. Ball is responsible for design and testing of all special missions and contract propeller systems in addition to preliminary design for 14 CFR Part 35 FAA certified propeller systems in use on active piston and turboprop aircraft programs. He has extensive technical knowledge of propeller design, manufacture, and FAA/EASA regulatory certification and nominated three times for the **Textron** Chairman’s Award for Innovation and twice selected as a Cessna finalist for the Innovation Award. Ball has led internal composite propeller development and testing efforts while at **McCauley** and holds two U.S. Patents for composite propeller systems. Ball represents **McCauley** in propeller accident investigations led by NTSB and foreign safety authorities, performs accident propeller teardowns, deposition and trial testimony as an expert on propellers and propulsion systems. Before **McCauley**, Ball worked as a propulsion systems engineer at **Cessna** with design responsibility for Citation Jet fuel systems and engine installations. Ball is an active pilot and holds both an FAA Pilot’s license and a FAA Mechanic’s License.

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UTC Aerospace Systems

# Sponsored Banquet

Monday, 13 November 2017

4:30 – 5:30pm Molly Stibaner and Ken Heath, **Goodrich** - installations, technical publications, customer support issues, field service processes. Discussion with questions and answers period to follow.

7 – 11pm **Goodrich** Conference Banquet!

Molly Harrington Stibaner, Product Support Engineer, **UTC Aerospace**, Uniontown, Ohio. BS Electrical Engineering Ohio Northern Univ. Stibaner’s technical knowledge and customer support background provide a unique position to educate and train across the student spectrum. Stibaner bridges the gap between the highly technical and real world answers for a complex product.

Ken Heath, Business Development Manager, **UTC Aerospace**, Uniontown, Ohio. BA, AA Business Management and Mass Communication Univ. of Akron. Heath has an extensive background in product strategy. Heath manages product processes from implementation of new product lines with OEM’s, STC’s and PMA’s to sales and marketing through training, regulatory, and inventory control. Heath has significant background in the **Goodrich** line of deicer products utilized in GA, business, regional and commercial aviation. Simply put, there is very little **Goodrich** product support and placement that Heath has not participated in over his almost ten years with **UTC Aerospace**.

The screenshot shows the Goodrich website header with navigation links: PRODUCTS, SERVICES & SUPPORT, MULTI-MEDIA, and COMPANY. The main content area features a large image of a white aircraft with a de-ice boot installed on the wing. The text reads: "Leading Provider of OEM De-Ice Boots" with a "See Details" button. The slogan "Give ice the boot!" is at the bottom left, and "UTC Aerospace Systems Welcomes members to WAPA 2017" is at the bottom right.

*Give ice the boot!*

UTC Aerospace Systems  
Welcomes members to WAPA 2017



## Innovative

Goodrich DuraTherm® propeller de-icers — new, robust design and improved service life.

Make sure to ask your prop overhaul facility for DuraTherm®.

# Goodrich DuraTherm® Propeller De-Icers

Textron Aviation King Air 300 Series, 208 Caravan Series, 1900 Series & A200CT

UTC Aerospace Systems is the manufacturer of Goodrich propeller de-icers. Goodrich DuraTherm prop de-icers are a new and improved version of existing prop de-icers with a more robust design and improved service life.

### Features & Benefits

- Durable heater technology
  - More resistant to foreign object damage
  - More uniform heat distribution
- Continued operation if damaged
  - Ideal for Part 121 and Part 135 operators
- Patented commercial heater technology originally adapted by Goodrich for harsh environments
- Fully interchangeable with current prop de-icers
- Fully tested and FAA certified
- Comprehensive support and installation services



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**UTC Aerospace Systems**

Tuesday, 14 November 2017

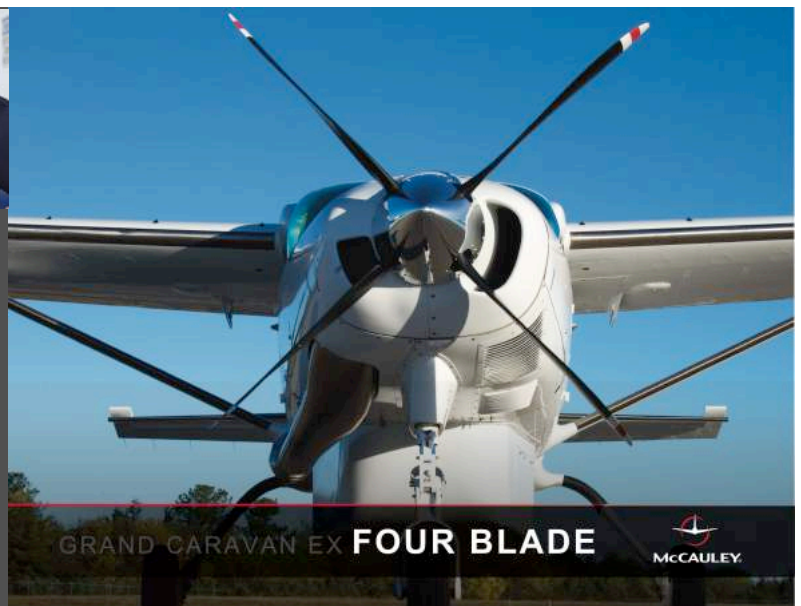
7-8:30am **McCauley Propeller Systems** Rise & Shine Breakfast

8 – 10am Chris Bell, Sandra Mills and Randy Tener, **McCauley Propeller Systems** - installations and STC's, technical review, customer support issues, field service and overhaul information, order processing, warranty claims, etc.

Chris Bell is the senior propeller Field Service Engineer for **Textron Aviation**. His responsibilities include technical support for all **McCauley** aluminum and composite fixed pitch, constant speed piston and turboprop propellers. In addition, propeller governing, deicing, synchronizing, and synchrophasing systems. Bell supports everything propeller related in the entire **Textron Aviation** realm. Bell also provides input for new propeller designs and aircraft applications. Bell has worked for BF Goodrich, Aircraft Wheel and Brake division as a Service Engineer supporting Beech, Bombardier (Canadair, DeHavilland and Learjet), Embraer, Fairchild, and the Space Shuttle. At Goodrich Bell's responsibilities included the technical support of wheel and brake assemblies for existing aircraft applications, the certification testing of new apps. and certified materials to replace asbestos. Bell has 25+ years industry experience, AS Aviation Maintenance Technology, BS in Aircraft Engineering Technology, Embry-Riddle Aeronautical Univ. Bell also holds an FAA A&P Mechanics license.

Sandra (Sandy) Mills, Sales and Business Development Manager for **McCauley Propeller Systems** a Division of **Textron Aviation, Inc.** A graduate from Wichita State University and Southwestern Collage with over 30 plus years in Aviation, 12 years with **McCauley**. Under **McCauley**, Mills is accountable for the direct interface with customers with her primary functions including: Domestic and International Sales, Business Development for OEM's, TC's, STC's and ASF's, in Commercial, Military and General Aviation. Other functions include Contracts, Program Management and account management. Before **McCauley**, Mills was employed by Boeing for 18+ years, as Environmental Engineer representing the Wichita Aviation sector on the Clean Air Act in Washington D.C. and moved to Production Management over nacelles. Mills also held positions with Bombardier/Montreal as Supply Chain.

Randy Tener, Inside Sales Representative **McCauley Propeller Systems** a Division of **Textron Aviation, Inc.** Handles direct interface with all domestic and international customers for Commercial, Military and General Aviation Sales. Primary functions include building customer relationships, identifying customer needs, and responding to questions/opportunity. Tener also develops productive interface relationships with internal organizations including warehouse operations, strategic planning, and aftermarket customer service. Tener was born and raised in aviation, and has a passion for aviation and flying. Tener started working line services at a local FBO before moving into part services with a focus on customer service. Tener was employed with **Cessna** for the last 12 years specializing in support of piston and turbine aircraft.



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hands built it





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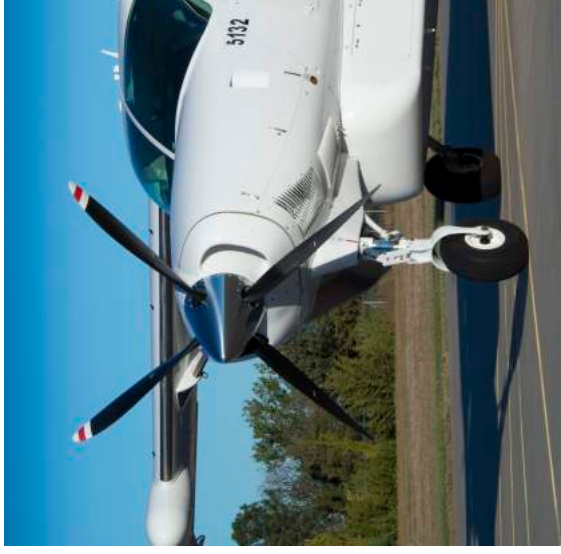
## SPECIFICATIONS

Number of Blades	4		
Weight (Installed with Spinner)	143 lbs	(64.8 kg)	
Diameter	102 in	(2.5 m)	
Time Between Overhaul	3500 hrs	or	6 yrs
Warranty	3500 hrs	or	3 yrs

## Compared to a standard C208B EX propeller:

- Improved take-off and climb performance
- Increased ground clearance
- Lighter than a standard C208B EX propeller
- Quieter than a standard C208B EX propeller
- Longer time between overhaul

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# WAPA 2017 Annual Conference

Tuesday, 14 November 2017

9:30 - 10:30am **Diagnostic Solution & J-PacNW** sponsored break. 15 minutes, TBA.

10am – 11am Neil Seamon, **Diagnostic Solutions International LLC**. Presenting technical aspects of dynamic balance on reciprocating and turbine propeller applications. Developments in tools, calibration and programmable solutions for your dynamic balance equipment.

Neil Seamon, **Diagnostic Solutions International, LLC**. Seamon is the manager for Customer Product Support and Field Service Engineering. Seamon has over 20+ years experience combining mechanical, rotor track and balance, avionics, and vibration data analysis on a variety of different aircraft applications in both civilian and government/defense markets.

11 – 12pm Mike O'Neil, **Aeroscan**, System updates, new programming and improvements for **Aeroscan** precision equipment

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Health and Usage Monitoring Systems (HUMS) have only been around for a couple of decades, but that hasn't stopped the 22 employees of Diagnostic Solutions International (DSI) from acquiring a combined total of about 250+ years of experience with the technology.

One of Honeywell's valued channel partners, DSI provides helicopter operators with a wide range of HUMS-related hardware, software, customer support, engineering and field support, system design, training and other services. Headquartered in Ontario, Calif., the company prides itself on providing "a single point of entry for all customers' HUMS needs," said Brian Hatcher, president and CEO of DSI.

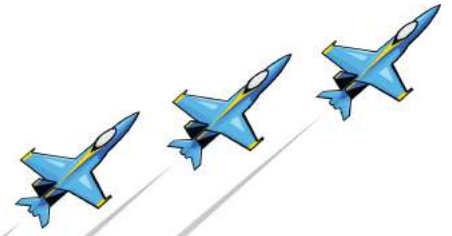
**"WE OFFER OUR EXPERIENCE AND SPECIALIZED APTITUDES IN HELICOPTER ROTOR TRACK AND BALANCE, PROPELLER BALANCE, AIRCRAFT AND ENGINE COMPONENT BALANCE, VIBRATION ANALYSIS, ENGINE PERFORMANCE QUALIFICATION, AND HUMS DATA MANAGEMENT AND ANALYSIS," HATCHER CONTINUED. "OUR EXPERIENCE WITH THE HONEYWELL HUMS TECHNOLOGY DATES BACK TO THE CHADWICK HELMUTH DAYS AND WE'RE PROUD TO BE HONEYWELL'S PREMIER DISTRIBUTOR AND SERVICE PROVIDER FOR THE HUMS PRODUCT LINE."**

With thousands of systems in the field, Honeywell is the proven technology leader in HUMS that deliver a wide range of safety, maintenance, reliability and readiness benefits for all classes of rotary-wing aircraft. [For more...](#)



## Welcome to QC NDT Equipment LLC

Whether you're looking for ultrasonic flaw detectors, magnetic particle inspection equipment, radiography machines, liquid penetrant materials, calibration blocks, video inspection probes, or equipment rentals and consumables used in the field of NonDestructive Testing, you have arrived at the right place!



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

Tuesday, 14 November 2017

- 1 – 3pm David Arms, **QC/NDT Equipment and Level III NDT** – review of MAG, Dye-Pen and Eddy Current disciplines. Improving detection probability, tools, calibration and new issues from field service. Discussion with questions and answers to follow.
- 2:30 – 4pm **Aeroscan** sponsored break with snacks. 15 minute break TBA
- 3 – 5pm WAPA Business Meeting open to all members followed by the WAPA Board Meeting open to directors only.

David Arms, Certified NDT Level 3 through The American Society for Nondestructive Testing (ASNT) in Visual, Liquid Penetrant, Magnetic Particle, Ultrasonics, Eddy Current and Radiography methods with over 30 years experience. Arms is a FAA Certified Airframe and Powerplant mechanic and Private Pilot. Arms is known for his strong inspection, training and procedure development skills. In addition, Arms has authored and presented technical papers for FAA, ASNT, ATA and AWS organizations.



WAPA goes to the Big Game – Raiders vs. Denver

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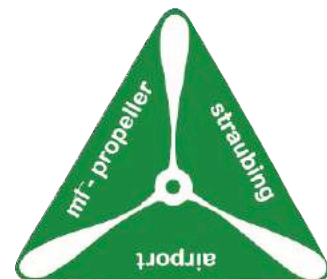
#### Approvals:

EASA DE.145.0115  
FAA MFNY838K  
EASA DE.21G.0008  
EASA.21J.020



# mt-propeller

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Goodrich DuraTherm® propeller de-icers — new, robust design and improved service life.

Make sure to ask your prop overhaul facility for DuraTherm®.

# Goodrich DuraTherm® Propeller De-Icers

Textron Aviation King Air 300 Series, 208 Caravan Series, 1900 Series & A200CT

UTC Aerospace Systems is the manufacturer of Goodrich propeller de-icers. Goodrich DuraTherm prop de-icers are a new and improved version of existing prop de-icers with a more robust design and improved service life.

### Features & Benefits

- Durable heater technology
  - More resistant to foreign object damage
  - More uniform heat distribution
- Continued operation if damaged
  - Ideal for Part 121 and Part 135 operators
- Patented commercial heater technology originally adapted by Goodrich for harsh environments
- Fully interchangeable with current prop de-icers
- Fully tested and FAA certified
- Comprehensive support and installation services



**For additional information:**  
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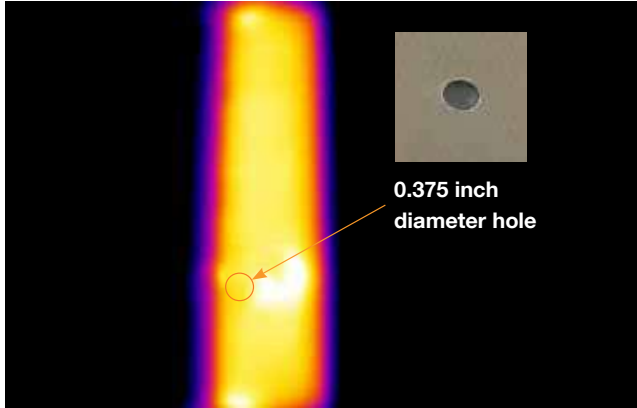
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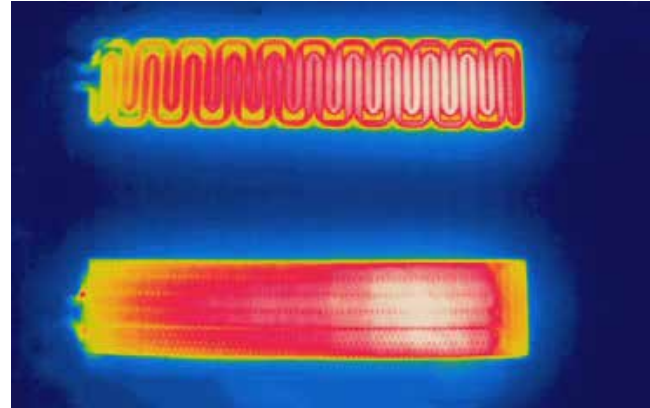
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# Goodrich DuraTherm® Propeller De-Icers

Textron Aviation King Air 300 Series, 208 Caravan Series, 1900 Series & A200CT



DuraTherm continues to operate even after damage



DuraTherm has a more uniform temperature distribution

## Total system supplier

UTC Aerospace Systems tests, manufactures and supports virtually every component of propeller de-icing systems: de-icers, slip rings, brush blocks, timer, timers with current monitor, wire harnesses, ammeters and supplies all other related hardware.

## Complete engineering design

From system concept to field application, UTC Aerospace Systems does it all. Our complete system engineering assures integral compatibility of all components in the de-icing system.

## Continuous innovation

UTC Aerospace Systems continues to provide product innovations in design, provisioning and support of our propeller ice protection products. Our approach is to innovate and improve with products such as DuraTherm prop de-icers — ask if it is available for your aircraft.

## Worldwide product and technical support

Our philosophy is simple—we make it, we support it. One toll-free call (+1 800-DEICERS) gives UTC Aerospace Systems customers and manufacturers, as well as end-users, our total attention. Direct access to 24-hour availability of parts through distribution fulfills our commitment to comprehensive support.

## New DuraTherm design

Goodrich's patented DuraTherm element pattern is more resistant to foreign object damage and more uniform heat distribution throughout the prop de-icer. Replacement of older de-icers with DuraTherm technology is easy because both systems utilize the same connectors, lead wires and hardware.

Platform	OEM Prop De-icer	New DuraTherm Prop De-icer	Propeller Blade
Beechcraft King Air model 300 series	4E2575-7	D4E2575-7	Hartzell HC-B4MP-3
Beechcraft King Air models 300, 300LW, B300, B300C	4E2575-10	D4E2575-10	Hartzell HC-B4MP-3
Beechcraft 1900, 1900C	4E2560-10	D4E2560-10	Hartzell HC-B4MP-3
Beechcraft 1900D	4E3400-1	D4E3400-1	Hartzell HC-B4MP-4
Beech A200CT (RC-12K) Cessna 208, 208A, 208B	4E2560-12	D4E2560-12	McCaughey Props
Cessna 208, 208B	4E2560-10	D4E2560-10	Hartzell HC-E4A-3



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**UTC Aerospace Systems**



WAPA 2016 Oakland – Molly talks deicer, thanks to BFG for the great dinner!



WAPA 2016 Oakland – Jim Reedy our keynote speaker. Inspiring and challenging us for future!





MT Propeller, IBT and McCauley



Our WAPA boys from Falcon and Texas Prop

Everyone has time to stop by and join the WAPA cocktail party







Associate Member Roster 2017-2018

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WAPA is attended near and far –  
Technic Aviation , France



The Goodrich sponsored banquet is our time for Friends, great conversation and relaxation

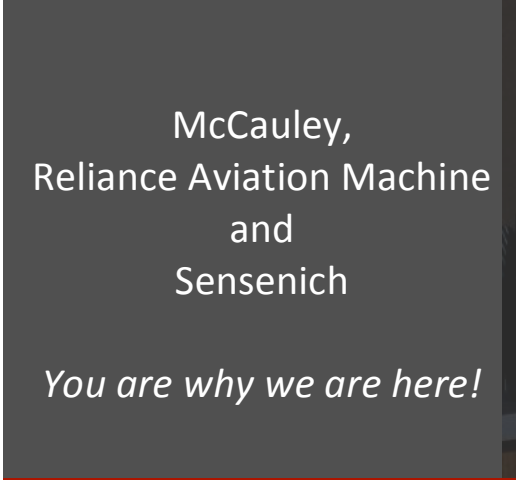


It's not a WAPA Conference without Butch, Hartzell or International Prop kicking it off at the cocktail party.



Hartzell,  
Intercontinental  
and  
Jordan

We couldn't do  
without this  
support



McCauley,  
Reliance Aviation Machine  
and  
Sensenich

*You are why we are here!*







## See y'all in Reno for WAPA 2018

Thanks to all who came and we wish you were here to all who missed. Check out the photos of what you could've at

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