ACM
Aerospace Components Manufacturers

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# ACM UPDATE
## April 30, 2018
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## Aerospace Components Manufacturers, Inc.
The World's *Aerospace Alley!*®
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The ACM Update & Calendar (& previous issues) are also available on the website in the **About ACM** menu

### Welcome Returning ACM Member

**Turbine Controls Inc.**
5 Old Windsor Road
Bloomfield, CT 06002
www.tcimro.com

**TCI Contact Info:**

Glen Greenberg, President
Email ggreenberg@tcimro.com
Phone 860-242-0448
Fax 860-726-1981

**Turbine Controls Inc. (TCI)** is an FAA approved repair station focused on the overhaul and repair of components and accessories for commercial, military, industrial and airframe applications. Our accessory capabilities include fuel, oil and pneumatic applications in addition to sub-assembly component repair. Our component repair capabilities include machining, grinding, plasma, welding, shot peening, painting, blasting and non-destructive testing for both rotating and static engine components. **TCI's** unique combination of both accessory and engine component repair provides customers with a unique one stop alternative to fulfill many of their maintenance requirements. At **TCI,** we continually raise the bar to satisfy our customers by developing cost effective maintenance solutions through continuous improvement.

## Business Development

The Business Development meeting was held on April 17th. Meeting was well attended with 39 members present and 6 guests. 2 guest companies, and potential members, were IMET Alloys, Plainville, CT and Joining Technologies, East Granby, CT.

Members conducted a roundtable discussion of current issues in the industry; as these conversations are always candid, details are omitted. General comments included:

- Companies are reporting record sales and high quoting activities
- Lots of activity around workforce hiring, incumbent training, apprenticeships and developing relationships with schools.
- Many are reporting success with hiring directly from Technical High Schools as well as Community Colleges engaged in Advanced Manufacturing
- Some members are adding additional floorspace as well as investing in advanced technology equipment purchases
- Manpower challenges are a major constraint
- DOL policies on timecard reporting needs review by businesses

## Next Meeting:

The next meeting of the Business Development Team will take place on Tuesday, June 12th at 8:00am at The Lyceum, 227 Lawrence Street Hartford, CT.

The following is the 2018 schedule for Business Development Team meetings, all at The Lyceum: Tuesday, August 21st Tuesday, September 18th Tuesday, October 16th Tuesday, December 11th

## Industry News / Meetings / Tradeshows:

## Feedback:

● ACMT reported attending the *Aerospace & Defense Supplier Summit* in Seattle, March 26-28th and stated that the event was well attended with a strong Boeing and Spirit presence.

● ACMT reported attending the *MRO America's Orlando,* April 10 & 11th and stated that the event was well attended, and 4 companies were recognized of which 2 were ACM Members, Turbine Controls Inc. and ACMT. Congratulations on your awards.

**UPCOMMING INDUSTRY MEETINGS**

-Sampe 2018 Conference & Exhibit Long Beach CA May 21-24th
-Aerospace Meetings Brazil, Sao Jose dos Campos Brazil June 19-21st.
-GE CFM Supplier Conference Cincinnati, Ohio May 16th
-*Farnborough International Airshow*, Farnborough, UK, July 16-22nd

We look forward to members attending to provide feedback on these events.

# Materials Procurement Update

**THE SMALLIDGE REPORT:**
● Leslie Mason, Future Metals updated the membership on activities with a PowerPoint Presentation on the metals industry and its trends.

● Much of the report centered around the newly imposed tariffs that were just signed into law by President Trump as Section 232 Investigation; **THE EFFECT OF IMPORTS OF STEEL ON THE NATIONAL SECURITY.**

## Markets / Mills React

Prices continue to climb and leadtimes are moving out significantly. Especially impacted are castings and forgings with some suppliers moving out existing orders on the books.

There is much information contained in the complete PowerPoint presentation which can be found on the ACM website.

We look forward to continuing these informative presentations at the monthly meeting.

# Progressive Manufacturing

The Progressive Manufacturing Team has been busy scheduling a half-day technology seminar on **Additive Manufacturing to be held on May 24 from 7:30 to 12:00 at the Mazak Technology Center in Windsor Locks.** This seminar, ***The Current Trends in Additive Manufacturing; Yesterday, Today and Tomorrow*** will feature presentations from **UCONN, Addaero, Bodycote, GE and Mazak.** This no-cost seminar will feature experts to update you on the current state of this emerging and growing technology and its application in our industry. Invitations are out, and space is limited so please contact Paul Murphy (pmurphy@acm-ct.com) to register. **Please register today.**

The Progressive Manufacturing Team is requesting your input for meeting topics for upcoming Progressive Manufacturing Team meetings and seminars; ideas can span traditional Kaizen, Technology, Best Practices and/or Quality. We look forward to hearing from you; please contact Team Leader Eric Schneider (Birken Mfg) at eschneider@birken.net or the ACM Office at pmurphy@acm-ct.org.

# Workforce Development

## We need to inspire and encourage students, parents and educators to the career opportunities that exist in our industry.

- The Workforce Development Team sponsored a visit on April 12th to Howell Cheney Technical High School in Manchester, Ct. 17 ACM members visited the school and received a tour of the Manufacturing and Welding Departments. ACM members received a presentation by John Hoyle, Mechanical Design and Engineering Technology and Team Leader Caren Backus presented the ACM video and a brief of our aerospace industry. Paul Murphy advised the students and faculty of the opportunities and career paths that await them in our growing industry.

**These visits make a difference;** see Faculty and Student feedback below

### Student Feedback

Salutations, My name is Nathan Nazario, and, recently your visit to our technical high school sparked me to research information about an Aerospace company named "Turbine Technologies".

Turbine Technologies has capabilities with Electrical Discharge Machining, Wire Electric Discharge Machining (EDM) High-Speed Hole machining, and processing through Airflow testing for the products, and the capability of 5 Axis Milling.

This tour did matter to me as I learned what ACM is and how this organization comprises the largest concentrations of experienced and skilled Aerospace workforce with world-class aerospace abilities.

I hadn't known that Connecticut was the world's AEROSPACE ALLEY! It mattered to me, even more, when we got to talk and hear the ideas that were shared between the ACM guests and our shop instructors and students.

Hello, my name is David Demski. I'm glad that you came to visit our shop and I hope you enjoyed our presentation. I learned a lot about ACM during your presentation. I was a also impressed with ACM's collaboration with so many interrelated aerospace companies. It amazed me to know that my shop and your company implement lean and Kaizen. How your ACM member companies are continually improving and enhancing processes to be competitive. It interested me to learn about the ACM history and how they organized into a group with shared or complementary technologies . The tour mattered to me because now I have a better idea of what trade I want to be in and how to focus my skills and education towards my goal.

Greetings, my name is Drey Kearns an 11th grade student in MDET. Prior to the visit I researched information on the Aerospace company: Habco Inc

I'm fascinated with the companies technology and how much the different companies ranged in manufacturing processes and was surprised on how dense the aerospace workforce was in connecticut and that you can find anything you want or need in the aerospace industry in a 90 mile radius of Hartford, CT.

The tour mattered to me because this is what I've wanted my career to be since freshman year, this was a very eye-opening experience to see all these companies interest in the upcoming workforce. It would be a dream come true to work at one of these companies and I am determined to find a career in aerospace

**Greetings my name is Harrison Nguyen and prior to the visit, I researched information on the Aerospace company: AMCT Corporation.**

**I find it fascinating that companies offer such a range of technologies, for example, all the CERTIFICATIONS required for quality that Aerospace Companies have, as well as the range of different skills areas in Aerospace component manufacturing, repairs, chemicals, and finishing.**

**After the visit, I'm more interested in the Aerospace manufacturing side. And can see that it relates to my chosen field. I'm now even more certain that I want to pursue a career in manufacturing in the future.**

**I also liked that many individuals from different companies gave their take on how our classroom can incorporate best practices and needs in the industry today.**

**I really liked Kevin from ATI who showed interests in collaborating with our class!**

**And Mr. Murphy who explained the large group of Aerospace companies in our area!**

**Now when it does come time to enter a career, we already have a strong foundation to be successful.The tour mattered to me because I got to meet people who are experts in the aerospace field. The tour also matters to me because it gave me better exposure to what companies need in employee skills.**

Hello, my name is George Asiedu. Prior to the visit I researched information on the Aerospace company: CBS Mfg.

I'm impressed with the companies technology and took particular interest in their CNC lathes (up to 6 axis) and lean manufacturing, using 5S and Kaizen.

The tour mattered to me because it showed me the different companies in Aerospace in Connecticut. This means that I can focus my education and skills to meet Connecticut and local high technology Aerospace companies needs that are right in my area! It also showed me that our Aerospace companies are interested in our education and aligning our work practices with their needs.

My Presentation to the group included presenting our design of a Tilt-Rotary Cradle to improve our current CNC mini milling machine. We included our predicted processes, and estimated and actual time comparison outlined in a gantt chart, materials required and cost estimates.

## Facility Feedback

The Aerospace Components Manufacturing visit was exceptional for our Technical High School. It established a dialogue for aligning our best practices and skills to those needed by our local and exemplary Aerospace industrial base as represented by the ACM.

Mr. Paul Murphy fully engaged a group of 60 High School students with his presentation on the ACM. I've been teaching 17 years and can honestly say that we seldom see group events where students are so well completely and uniformly focused on a subject as they were on the ACM presentation. Well done and impressive!

This visit allowed students to feel invested in the goals of Aerospace companies as they recognized an application of their skills in many of the areas presented. We also found room for change to improve items we cover.

I am grateful for this experience for our School and our students. Ms. Caren Backus took a personal interest in communicating and arranging the visit while Mr. Murphy granted a full exposure of the ACM abilities and it's incredible resource for high technology and competitive careers to our Faculty and Students.

My goal and motivation is to work constantly to align our students skills with the ever changing needs of our high tech Aerospace industry. In alignment with this goal the ACM has enhanced our students perception of the scope of careers in Aerospace.

My sincere thanks to Mr. Paul Murphy, Ms. Caren Backus and the representatives of the ACM for their generous donation of time and participation for the improvement of our students.

Sincerely,

John Hoyle

Mechanical Design and Engineering Technology

Howell Cheney Technical High School

Phone: 860-649-5396 x378

John.hoyle@ct.gov

## ACM Member Feedback

Thank-you so much for allowing us to participate in today's information session and tour. We were impressed with the engineering group and will be reaching out to Cheney about the possibility of involving their students in our summer internship program. We already tap the CREC Aerospace Academy students, so why not Cheney. We like to have a mix of high school and college students. I also think the administration is doing well at keeping the coursework relevant.

- Students appeared to be eager to learn and implement ideas from their teachings. They were very excited to present what they are working on and seem to enjoy hands on learning.
- I was very impressed with how up to date the lesson plans are and although they thought that the equipment was 'old', it was very realistic to what we currently work with.
- I was very pleased to see that Lean, Six Sigma, Gemba and Kaizen are being taught in the high school.
- The students were engaged in conversation and want to learn**.**
- The curriculum is good but we need to help them and be more involved.
- I think the ACM needs to determine what it is we need from the schools and then work with them to achieve that.
- Energy, Intelligence and Enthusiasm; Strong Design and Mfg Shop Programs
- It would be nice to see what each respective dept has for a curriculum and we as an industry could give some feedback to what we need in our facilities and mirror that to the curriculum.
- I am sure it would benefit the school, students and our industry if we could coordinate small, focused field trips based upon the student's trade and match to the appropriate company

**We hope you will continue to support the team's efforts by active participation and making suggestions on future initiatives.**

## A Few Minutes with Murph

I know many member companies would like to do more training but may not have the resources to reach the minimum requirements for a state sponsored grant. Therefore, I have been working with the CT DOL and the ACM has applied for a training grant for our membership. **I will be needing your help.** I am currently putting together a list of proposed training classes/events as starting points to spur discussions and determine the real needs of the membership. What is required is a list of classes/events, the companies and the number of people being trained as well as quotes for providing these services. The scope, at this point, is open and can include the traditional classes that ACM runs (i.e. B/P Reading, GD&T, Shop Math etc.) and new training courses that we need such as, Excel, Access, PowerPoint, Lean Enterprise, Six Sigma, Process Modeling & Simulation, Strategic Planning, Factory Physics, Finance 101, Growing Your Business, to name a few. So, I need your input and will be reaching out to you for your involvement and assistance. The training will be a 50% refund of paid

expenses and we can combine member companies. This is a fantastic opportunity to get the required training we need to advance our incumbents at half the normal price.

# Topics of Interest

**Technology Talent Bridge offered by CTNext.** As you prepare to bring on your summer interns, we want to remind you of the Technology Talent Bridge (TTB) program offered by CTNext. The TTB program offers up to $25,000 in grant funding to Connecticut-based companies to assist with the hire of an undergraduate, graduate or postdoctoral student intern. For more Information Click below
**Click Here**

**Manufacturing Continues As Bright Spot In Connecticut's Economy**
by: Christine Stuart
"Connecticut is home to more than 4,000 manufacturers who employ 159,000 employees. That means that nearly one of every 10 Connecticut workers is employed in the manufacturing sector, but the demand for those skills continues to accelerate as many in the workforce are headed for retirement. For more Information Click below
**Click Here**

"**CBIA Connecticut Business & Industry Association" Manufacturing News**
For more Information Click below
**Click Here**

**"Manufacturing Innovation Fund Latest News" Advancing Manufacturing Faster**
For more Information Click below
**Click Here**

**WNPR Manufacturing News" Connecticut's Public Media Source for News and Ideas** For more Information Click below
**Click Here**

**Pratt taps CT manufacturers for expanded engine repair supplier chain**
ACM Firms, ACMT and Turbine Controls Inc. ink contracts to supply maintenance for GTF Engines
For more Information Click below
**Click Here**

**Please make sure to register for the Presidents Annual Meeting as well as the Progressive Manufacturing Seminar on Additive Manufacturing. Contact Paul Murphy at pmurphy@acm-ct.org**

# ACM Annual Presidents Meeting

**Wednesday May 16th from 2:30 to 7:00**
**New England Air Museum, Windsor Locks, CT**

Meeting invitations have been sent out so please promptly respond to Paul Murphy pmurphy@acm-ct.com your intent to attend as seating is limited.

Unfortunately, our Featured Speaker, Joakim Andersson, will not be able to attend. Joakim was recently informed that Melrose's Management Team will be visiting his facility at the time of our seminar. However, being the stand-up guy he is, Joakim is sending two of his colleagues to present what will be an outstanding and informative topic of discussion: **Digitalization and Industry 4.0**. Many of you have heard of Industry 4.0 and I'm sure some have not. This presentation will fill you in on what is coming and where its going.

**If the vision of Industry 4.0** is to be realized, most enterprise processes must become more digitized. A critical element will be the evolution of traditional supply chains toward a connected, smart, and highly efficient supply chain ecosystem.
The supply chain today is a series of largely discrete, siloed steps taken through marketing, product development, manufacturing, and distribution, and finally into the hands of the customer. Digitization brings down those walls, and the chain becomes a completely integrated ecosystem that is fully transparent to all the players involved — from the suppliers of raw materials, components, and parts, to the transporters of those supplies and finished goods, and finally to the customers demanding fulfillment.

This network will depend on a number of key technologies: integrated planning and execution systems, logistics visibility, autonomous logistics, smart procurement and warehousing, spare parts management, and advanced analytics. The result will enable companies to react to disruptions in the supply chain, and even anticipate them, by fully modeling the network, creating "what-if" scenarios, and adjusting the supply chain in real time as conditions change.

Once built — and the components are starting to be developed today — the digital supply "network" will offer a new degree of resiliency and responsiveness enabling companies that get there first to beat the competition in the effort to provide customers with the most efficient and transparent service delivery.

Hear from the Company and the People who live this every day and are implementing the strategies.

You also have the ability to enjoy the Museum exhibits, the Hors d'oeuvres and refreshments. And naturally, plenty of time for networking.

## PLEASE RESISTER TODAY

# News from ACM Members

## Sikorsky Recognizes Top Suppliers

March 29, 2018
Edited by Eric Brothers
Military/UAV/UAS

**Lockheed Martin's Sikorsky** business honors 26 top suppliers for achieving on-time delivery, cost and quality standards during 2017.

Lockheed Martin's **Sikorsky** line of business honored its top suppliers at a recent ceremony in West Palm Beach, Florida.

Twenty-six suppliers were recognized, including 19 that received honors as Sikorsky Elite Suppliers for best-in-class performance in achieving on-time delivery, cost and quality standards during 2017. Presenting the awards were Dan Schultz, Sikorsky president, and Mike Ciocca, vice president, Supply Chain.

**Sikorsky Program Supplier of the Year award recipients**

Aftermarket: **Senior Aerospace** – Enfield, Connecticut. Senior provides world class customer service and support, as well as quick turn times to quote requests. Their Enfield facility is an industry leading shop.

**Sikorsky Elite Supplier honorees**

• **Aero Gear,** Windsor, Connecticut, engineering and manufacturing of aerospace gears, geared systems and gearbox assemblies for the global aerospace industry. First achieved Gold status in April 2016 and has been a Sikorsky supplier for 30 years.

• **Alpha Q,** a small business supplier located in Colchester, Connecticut. Alpha Q has more than 50 years' experience in precision machining, manufacture, assembly, and test of aerospace alloy components.

• ATI Cudahy, Wisconsin (ATI Ladish LLC – Forging) and **ATI East Hartford**, Connecticut (ATI Ladish Machining – Machining) is a global manufacturer of technically advanced specialty materials and complex components. For Sikorsky, ATI provides critical rotor and transmission components for key helicopter programs. These components are produced from various titanium and steel alloys forged and heat treated at ATI's Cudahy Operations in Wisconsin. In addition, many of these forgings are then finish machined at ATI's East Hartford Operations in Connecticut

• **Senior Aerospace**, Enfield, Connecticut, is an aerospace components manufacturer, specializing in complex machining, assembly, and coatings. Products include rotorcraft main rotor and tail rotor dynamic components, transmission and gearbox assemblies, and aero-engine components including rotating and non-rotating components.

## Congratulations to the ACM Members Recognized

## Hard work always gets noticed

For the full article please use the link below

**Click Here**