

# ***4<sup>th</sup> of July Fun – Made in CT***

***with Thomas Hooker Brewing Company and Fascia's Chocolates***

***Hosted by Connecticut Center for Advanced Technology, Inc. (CCAT)  
& Advanced Manufacturing Employer Partnership (AMEP)***

***July 2, 2020***

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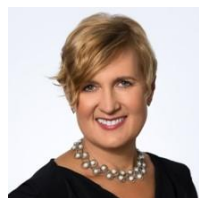
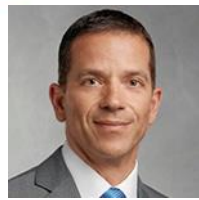
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# Agenda

- Made in America Minute (Ari Santiago)
- Spotlight on Women of Innovation Finalists (with CTC)
- Made in CT
  - Thomas Hooker Brewing Company, Bloomfield
    - Curt Cameron, President/Emperor
    - Roy Haight, IoT Engineer, Hartford Steam Boiler
  - Fascia's Chocolates, Waterbury
    - Carmen Romeo, Owner
- State Updates
- CT Manufacturers Perspectives
- CCAT Program Updates

# Presenters

- Ron Angelo, CCAT, President & CEO
- AMEP Co-Chairs
  - Hartford-Area: Glenn Ford, President, Phoenix Manufacturing
  - Central CT: Charles Daniels, Chief Financial Officer, Wepco Plastics
- Ari Santiago, President, IT Direct
- Colin Cooper, Chief Manufacturing Officer, CT
- Curt Cameron, President/Emperor, Thomas Hooker Brewing Company
- Roy Haight III, IoT Engineer, Hartford Steam Boiler
- Carmen Romeo, Owner, Fascia's Chocolates
- Erika Smith, CEO, ReNetX Bio, Entrepreneurial Innovation & Leadership Women of Innovation® finalist





**Join me weekly for the podcast!**

Podcast website: <http://madeinamericawithari.com/>

YouTube channel:

<https://www.youtube.com/user/itdirect151>

Or Search for Made in America with Ari Santiago on  
your favorite podcast app!

**Connect with me on LinkedIn for more great  
content for CT manufacturers:**

<https://www.linkedin.com/in/asantiago104/>

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..... 16th Annual .....

# WOMEN OF INNOVATION<sup>®</sup>

.....

## Celebrating Entrepreneurial Innovation & Leadership



## *Entrepreneurial Innovation & Leadership Finalists*

**Jessica  
Bailey**

CEO  
Greenworks Lending

**Virginia  
Juliano**

Founder & CEO  
CobbleCord

**Donna  
Lecky**

Co-Founder & CFO  
HealthVenture, HealthHavenHub



## *Entrepreneurial Innovation & Leadership Finalists*

**Colleen  
McGuire**

Founder & CEO  
Silver Fern Healthcare



**Shana  
Schlossberg**

Founder & CEO  
Upward



# Erika Smith

## *Entrepreneurial Innovation & Leadership Finalist*

CEO | ReNetX Bio



- CEO of a clinical stage company committed to reversing neurological damage and disease
- Invited TedX presenter and awarded Entrepreneur of the Year (BioCT)
- Co-authored "Empowering Women Entrepreneurs" sponsored by JPMorgan Chase
- B.S. in Biomedical & Electrical Engineering and MBA from Vanderbilt University

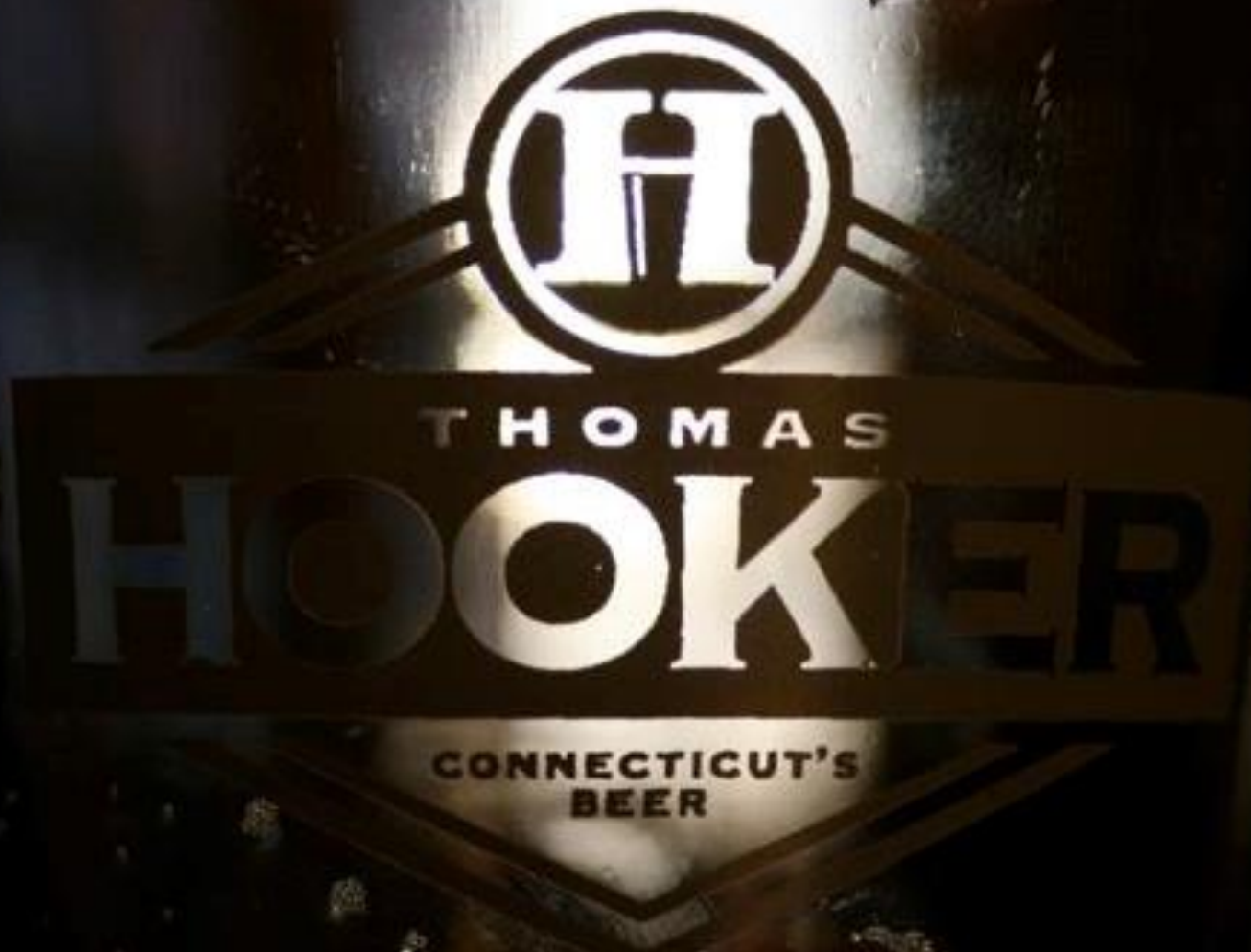
**Committed to driving innovation in life-science  
by encouraging leadership diversity**





Watch previous spotlights and learn more about  
this year's finalists at:

[\*ccat.us/womenofinnovation\*](https://ccat.us/womenofinnovation)

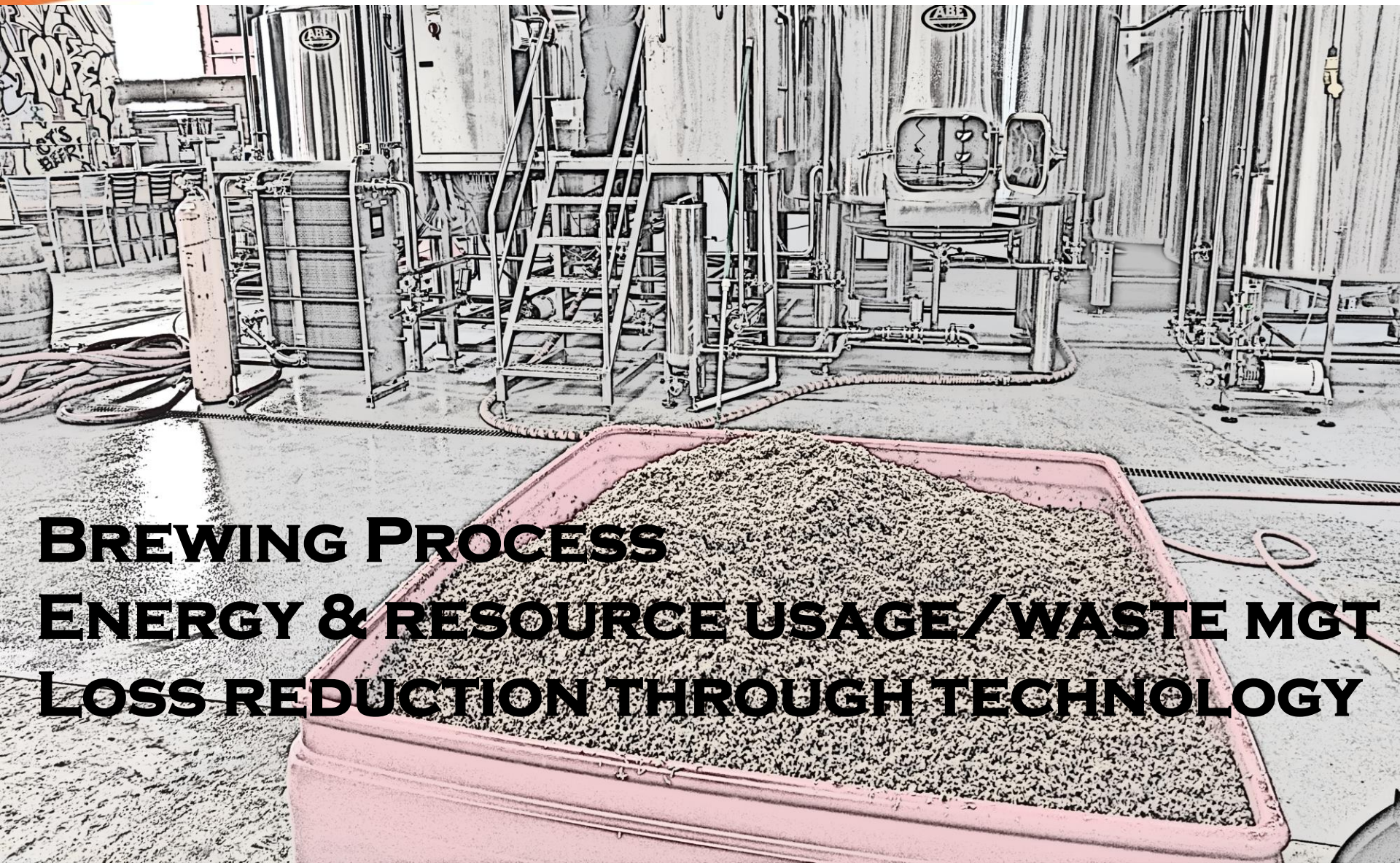


Technology – Efficiencies - Sustainability



~~SUSTAINABILITY – “TO MAINTAIN AT A CERTAIN RATE OR LEVEL”~~  
~~“CREATING VALUE THROUGH CONSUMPTION”~~





**BREWING PROCESS**  
**ENERGY & RESOURCE USAGE/WASTE MGT**  
**LOSS REDUCTION THROUGH TECHNOLOGY**



## 4 MAIN INGREDIENTS IN BEER ?

WATER



H  
O  
P  
S



GRAINS



Brewers Yeast



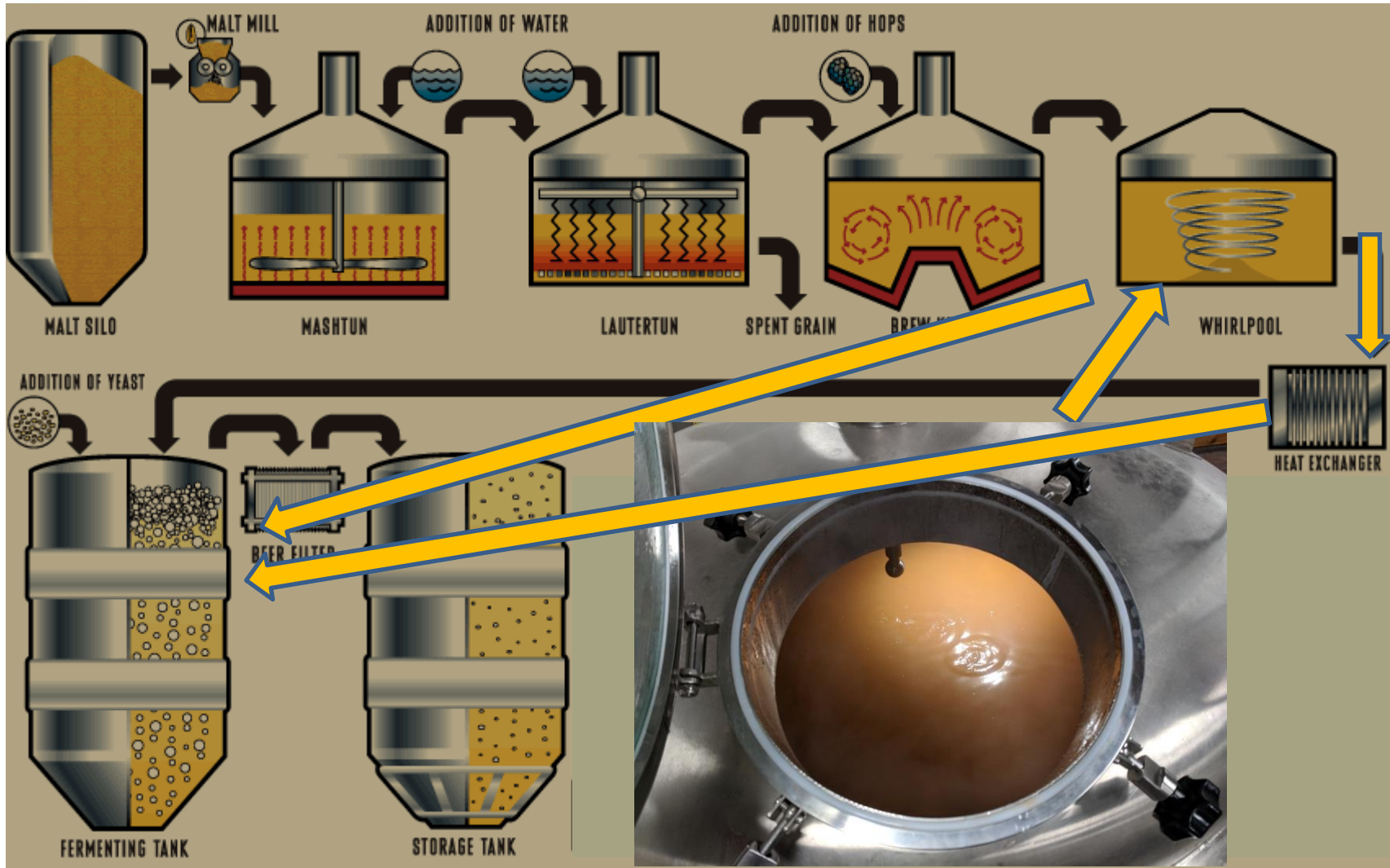


## Spent Grain - Where does it go ?

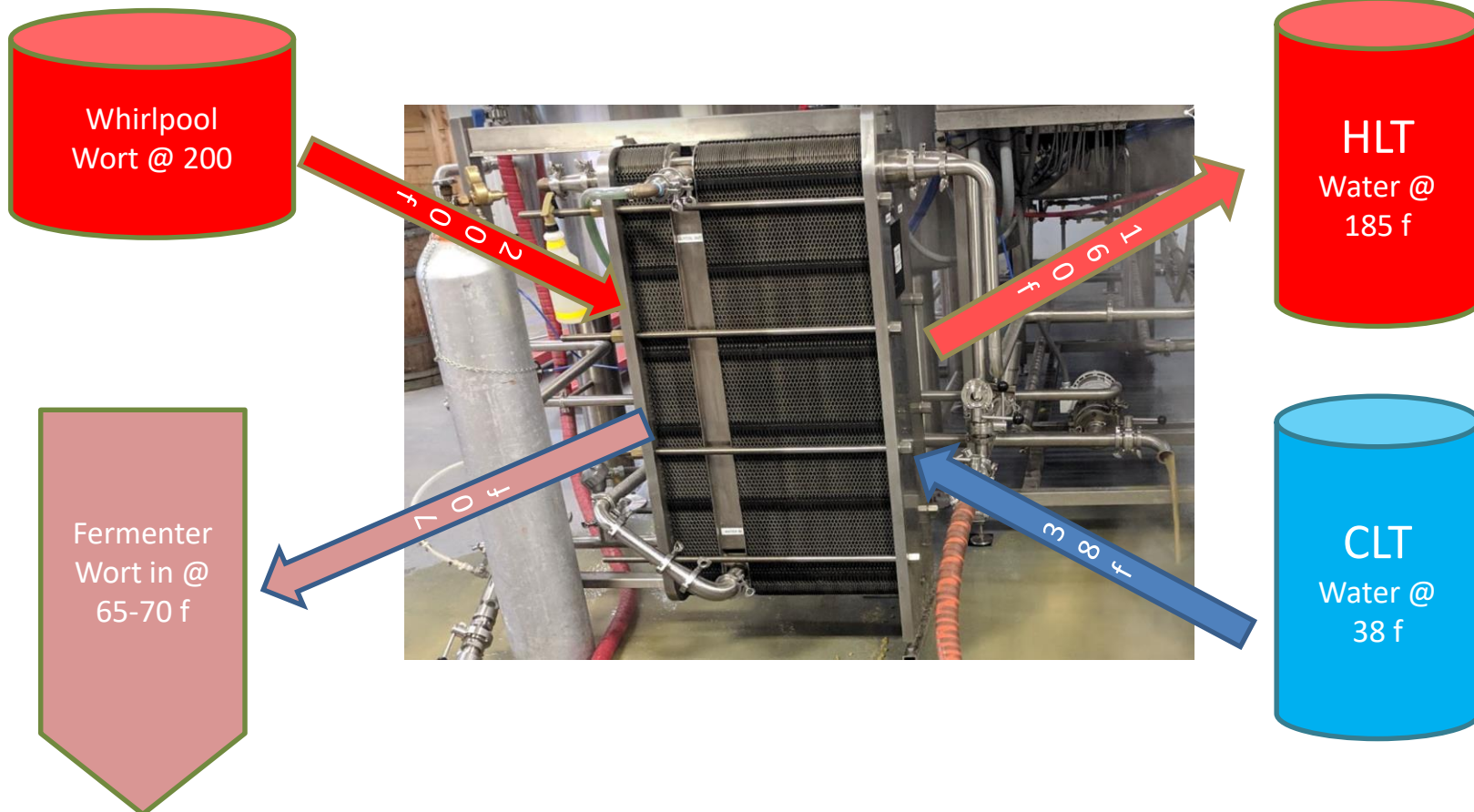


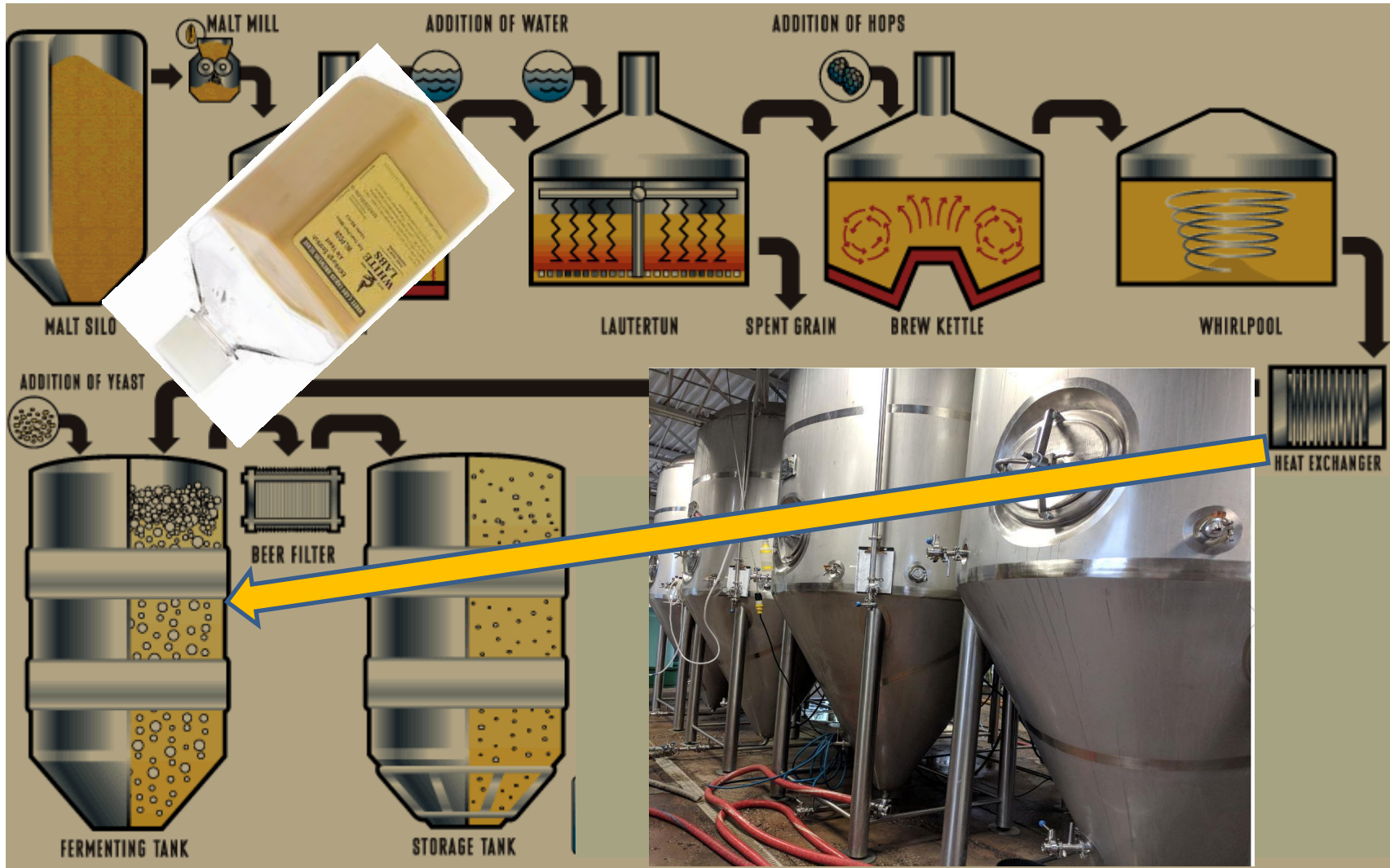
HOOKER  
GRAIN  
IT DOES A BODY  
GOOD





## COOLING WORT - HEATING WATER







## Creating Value from Organic Waste



- **ORGANIC WASTE IS USED IN A NEW METHOD TO TREAT ROADS IN WINTER.**
  - ORGANIC WASTE, MIXED WITH WOOD CHIPS AND ROAD SALT
  - REDUCES SALT USAGE BY 50%
  - WOODCHIPS PROVIDE BETTER TRACTION ASSISTANCE
  - WOODCHIPS + BIO-WASTE DECOMPOSE IN 2-3 WEEKS (NO SWEEPING)









## REDUCING WASTE, LOSS, AND ACCIDENTS THROUGH SENSOR TECHNOLOGY

**Munich RE** 



Hartford Steam Boiler

### SENSOR SYSTEMS by HSB



## REDUCING WASTE AND LOSS THROUGH SENSOR TECHNOLOGY

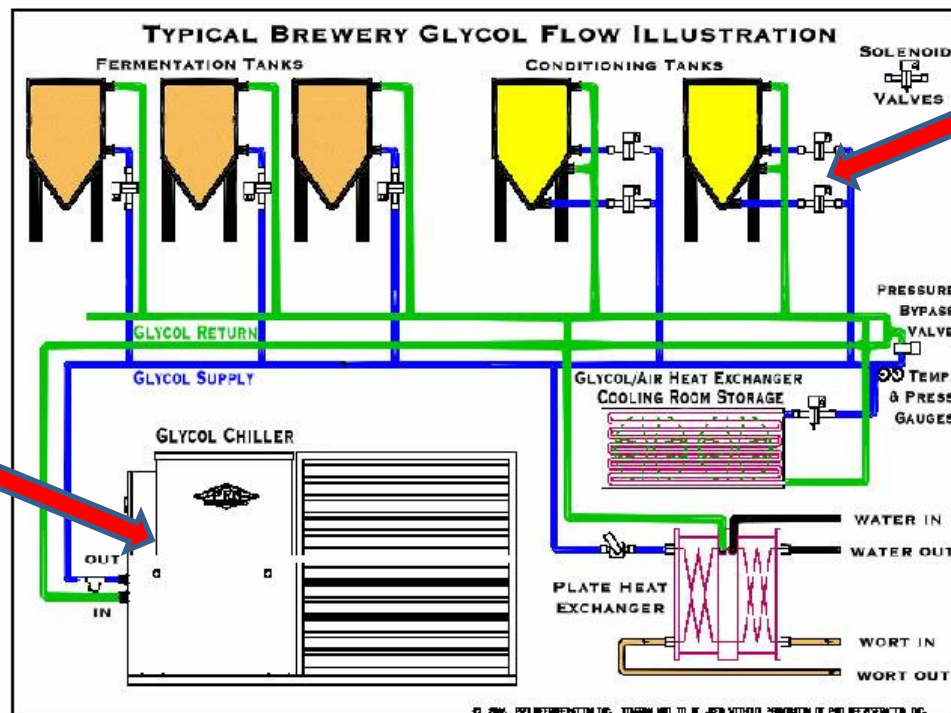
**Munich RE** 



Hartford Steam Boiler

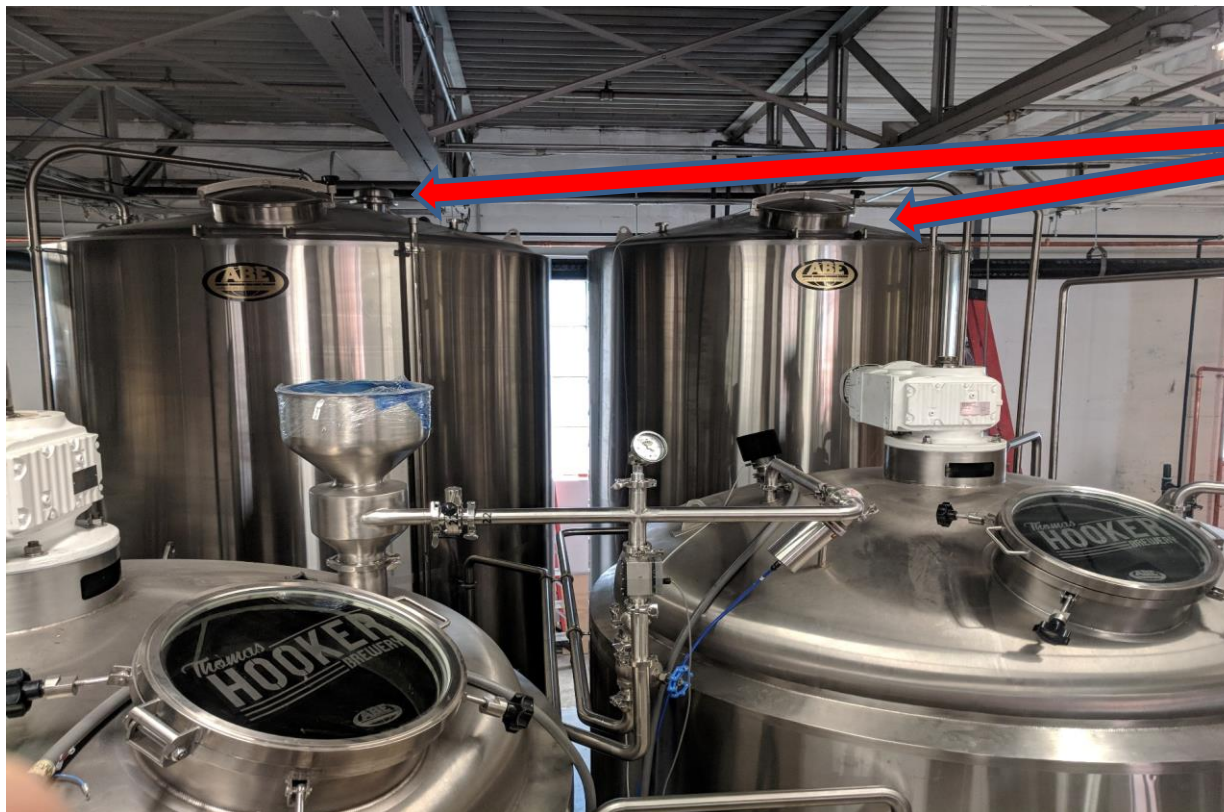
**CHILLER LOOP  
SENSOR**

**TANK LOOP  
SENSOR**



## REDUCING WASTE AND LOSS THROUGH SENSOR TECHNOLOGY

Munich RE 



**TANK  
OVERFLOW  
SENSORS**



## REDUCING WASTE AND LOSS THROUGH SENSOR TECHNOLOGY



Hartford Steam Boiler

### SENSOR LOCATIONS:

- AMBIENT BREWERY & WAREHOUSE SENSORS
- ELECTRICAL PANEL SENSORS
- WALK IN COOLER SENSORS
- BAR COOLER SENSORS
- WASTE NEUTRALIZATION TANK OVERFLOW

### FUTURE SENSORS:

- VIBRATIONS SENSORS
- PRESSURE SENSORS

## IMPROVE DATA RECORDING THROUGH SENSOR TECHNOLOGY

**Munich RE** 



**Hartford Steam Boiler**



Hot Liquor Tank  
39-31-37-33-54-37-63-19  
NODE

**No Water Detected**

3.36v

-57%



**Brewery - Chiller Loop** ⚠

Thomas Hooker Brewing Company

Alarms

Map

Folders

Nodes



DEVICE

DATA

LORAWAN

RATES

SETTINGS

Device

Nov 01, 2018 → Nov 08, 2018



weatherNode

81%

2018-11-02T19:53:00Z

attachments.zip monitoring center 2.jpg guy on cell.jpg monitoring center.jpg sensor gateway.jpg Show all

## THE GOAL

**REDUCING WASTE, LOSS, AND ACCIDENTS THROUGH SENSOR TECHNOLOGY**



## UTILIZATION OF HUMAN RESOURCES – TEAM OAK HILL



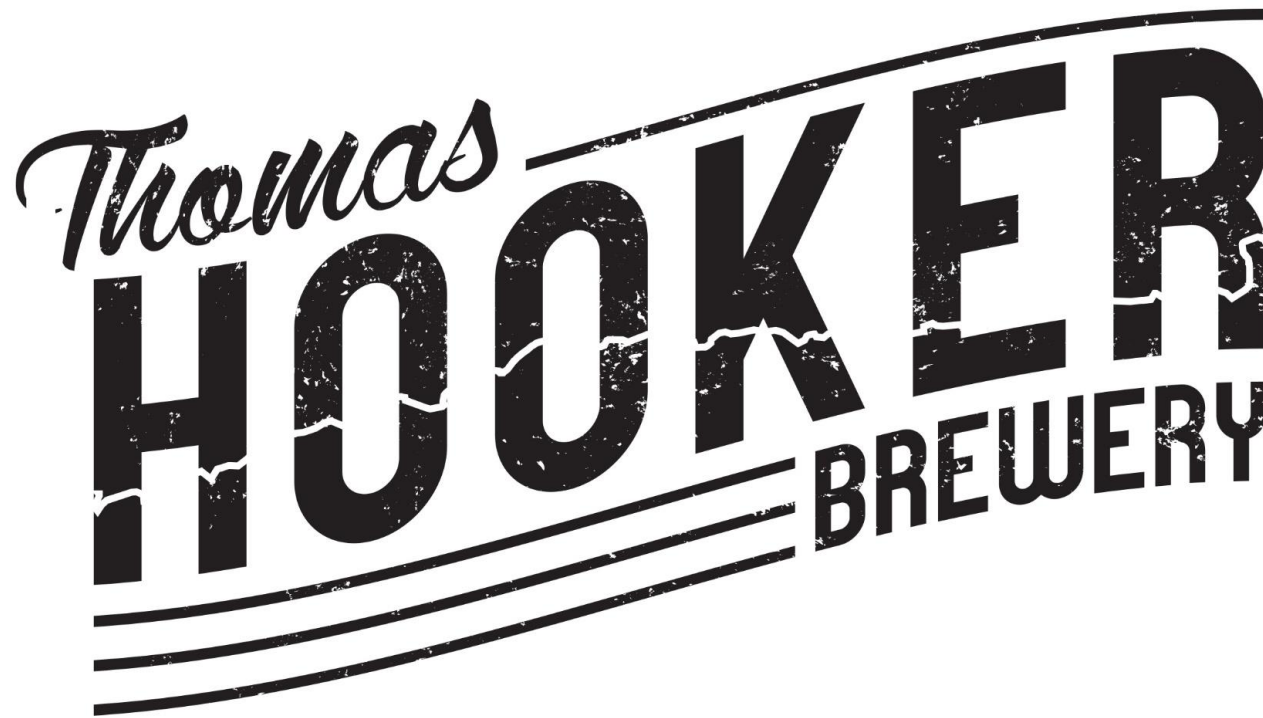
### BY PRODUCTS ARE:

- **ASSEMBLED PACKAGING MATERIAL**
- **BUILDING COMMUNITY**
- **CREATING SELF WORTH**
- **PROUD WORKERS**









# VIRTUAL TOUR TIME



**Carmen Romeo**  
Owner

# Watertown High School & Fascia's Chocolates

*"What's So Cool About Manufacturing?" Video Competition  
2019 First Place Winner*



[ctdidi.com/wscam-activity](http://ctdidi.com/wscam-activity)



# Fascia's Chocolates

Family handcrafted since 1964  
Waterbury, CT

- Family owned and operated by the originating members and continuing generation of the Fascia Family
- All products made in-house and in small batches to ensure the highest quality and freshness possible



# Employer's Perspectives

- Glenn Ford, President, Phoenix Manufacturing
- Charles Daniels, CFO, Wepco Plastics

# McAllister & Quinn Federal Update

## HEROES Act (4<sup>th</sup> Stimulus Package)

- The House of Representatives passed the \$3 trillion HEROES Act stimulus package on Friday, May 15<sup>th</sup>.
  - **Next Steps:** Senate needs to pass its version of the bill, next a negotiated House and Senate bill would be passed, then President can sign into law.
  - Potential action on a 4<sup>th</sup> stimulus package in late July/early August.
- \$3 trillion House passed stimulus package is a non-starter for Senate Republicans. Expect the final version of the HEROES Act to change dramatically.
- At this time we aren't seeing additional funding being discussed for the Payroll Protection Program to make new awards or provide continuation funding to awards that have already exhausted funds.
  - PPP loan application deadline has expired (June 30), Congress will potentially extend the deadline into August. Roughly **\$100 billion** appropriated to program is unused.



# McAllister & Quinn Federal Update HEROES Act (4<sup>th</sup> Stimulus Package)

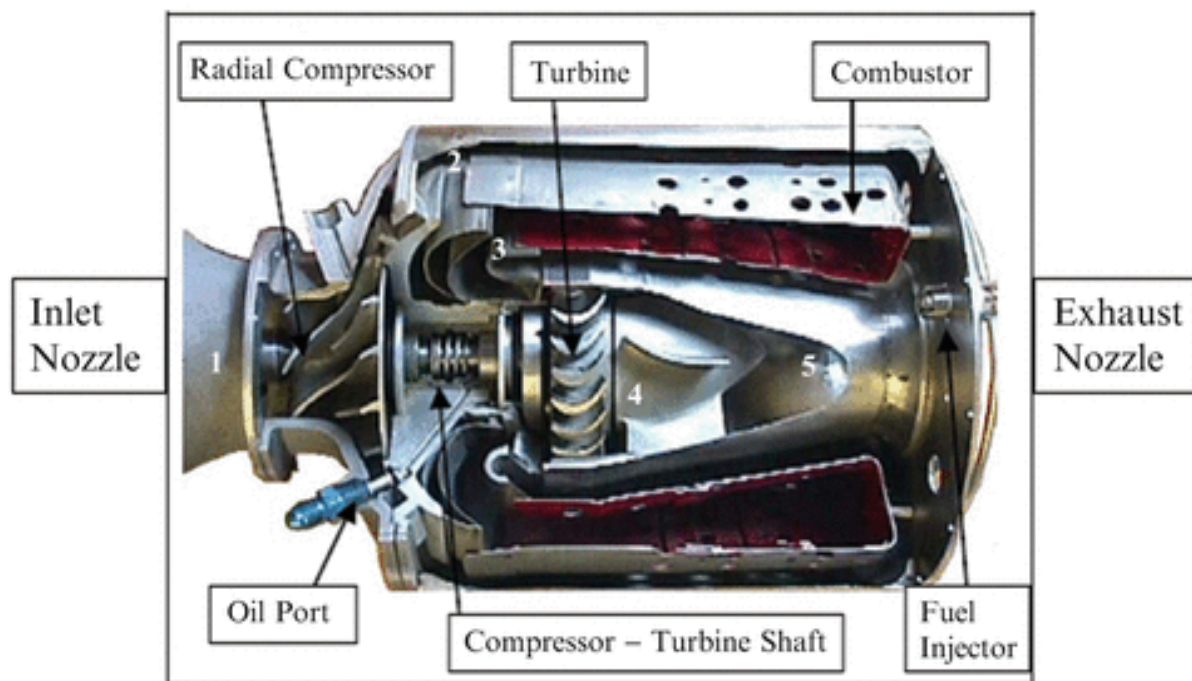
## What to Expect in the Next Stimulus:

- \$10 billion for new Small Business Administration Economic Injury Disaster Loans (EIDL). Detailed EIDL program information covered on other CCAT webinars (see CCAT website).
- \$600 weekly unemployment supplement to unemployment benefits expires July 31<sup>st</sup>. Expect next stimulus package to address this (continuation of full supplement, lower \$ amount supplement, etc.).
- Business-related liability protections to cover:
  - Businesses that work in “good faith” to follow government guidelines against COVID-19.
  - Manufacturers that repurposed production and distribution to provide PPE.
  - Companies that have donated their stock of supplies to hospitals and medical professionals.
  - Providing employers with a safe harbor for collecting and exchanging critical information related to employees’ health status and for implementing health measures such as temperature checks.

# Federal Reserve's Main Street Lending Program Now Live!

- Main Street Lending Program is an additional loan program option for small and medium-sized businesses. Eligible for firms up to 15,000 employees. Detailed information has been covered in past CCAT webinars (see CCAT website).
- Loans are made through outside lenders. If you are interested in accessing this program, reach out to your lender ASAP to see if they are participating in the program.
- Non-forgivable loans are available from \$250k to \$35M+. Maturity date of all loans are five years with no principal payments until the end of year three. Roughly 3% interest rate.
- Program is first come, first served, similar to the SBA PPP and EIDL programs. Organizations that received a PPP are still eligible for this program.

## Supply Chain Opportunity for Small Turbine Engines



USAF desires to expand the U.S. supply chain capacity to manufacture small turbine engine parts (less than 2,000 lbf thrust engines)

Reduce cost and delivery schedules for existing suppliers

Stand-up additional suppliers – including non-aerospace industry sectors

Please contact Tom Maloney ([tmaloney@ccat.us](mailto:tmaloney@ccat.us))



# FREE Industry 4.0 Workshops

For CT small to medium sized aerospace & defense manufacturers  
*On Demand Any Time*

- [Design to Print Technology](#)
- [Data Dashboards & Applied AI](#)
- [Predictive Maintenance Technologies](#)
- [IoT/Cloud & Cognitive Computing](#)
- [Modernization Strategies](#)
- [High Speed Contact Metrology](#)
- [High Speed, Automated, 3D Scanning for Part Inspection](#)
- [Low-Cost 3D Scanning-Part Digitizing & Parametric Models](#)
- [Machine Tool Probing for Industry 4.0](#)
- [Augmented Reality Solutions in Manufacturing](#)
- [Industry 4.0 and Smart Manufacturing](#)
- [The Digital Twin aka Model Based Definition](#)

[ccat.us/incumbent-worker-training](https://ccat.us/incumbent-worker-training)



Every Thursday  
@ 12pm

**CMMC - What do DoD Employers Need to Know**  
Next Thursday, July 9

# Follow-Up

Slides have been posted on the CCAT website:

<https://www.ccat.us/2020/06/07-02-webinar/>

- CCAT Point of Contact:

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- For questions or suggested topics for upcoming webinars, email:  
[\*\*workforce@ccat.us\*\*](mailto:workforce@ccat.us)

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