

CAPJEM 

**WELCOME**

**Novel Coronavirus/COVID-19  
Webinar  
3/13/20**

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**AGENDA**

**Novel Coronavirus/COVID-19**

- About Capjem
- Basics of the virus and what we know so far
- Capjem Hygiene Study
- Protection of Employees, Products, and Customers
- Virus Threat Mitigation

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**AGENDA**

**Novel Coronavirus/COVID-19**

**About Capjem**  
Basics of the virus and what we know so far  
Capjem Hygiene Study  
Protection of Employees, Products, and Customers  
Virus Threat Mitigation

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**ABOUT CAPJEM**

**Novel Coronavirus/COVID-19**

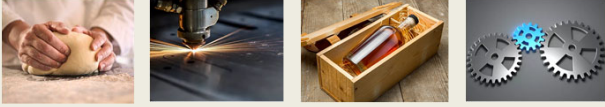
Since 2004, we have operated as a full-service organization for all culinary, beverage science, and manufacturing needs.

Our experience stretches across multi-disciplines in which we possess an incredible amount of expertise, knowledge and well-rounded experience.

It is our goal and company obligation to always reach for outcomes that far exceed the expectations of our customers.

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## ABOUT CAPJEM

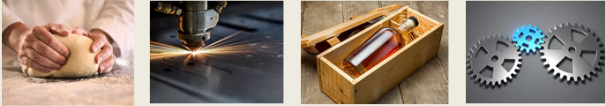
**Novel Coronavirus/COVID-19**

Your presenter - Dr. Peter A. Cicero

- Over 30 years experience in manufacturing, chemistry, R&D, and quality
- Executive with significant experience in operations, quality, and marketing
- Six Sigma Master Black Belt
- BS in Chemistry with ACS certification
- MBA with emphasis in marketing
- Ph.D. in Organic Chemistry

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## ABOUT CAPJEM

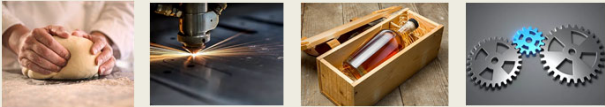
**Novel Coronavirus/COVID-19**

Achievements

- Developed world's first in-line refrigerator water/ice filtration system – Whirlpool
- Designed and installed world's largest Chrome/DI water recycling system
- Engineered and implemented carbon cabin air filtration systems for Boeing and Aston Martin
- Created first and only successful enhanced aging and selective purification system for distilled spirits

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**ABOUT CAPJEM**

**Novel Coronavirus/COVID-19**

Fun Facts

- Professional Golfer
- Taught Ballroom Dance
- Played keyboards for Cheap Trick
- Rockford native
- Diehard Bears fan

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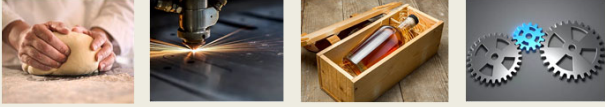
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## VIRUS BASICS


**Novel Coronavirus/COVID-19**

Virus has been named “SARS-CoV-2”

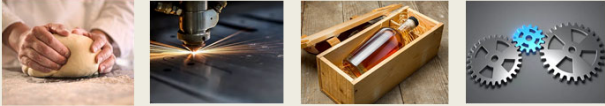
Disease it causes has been named “coronavirus disease 2019” (abbreviated “COVID-19”)

COVID-19 is a new disease, caused by a novel (or new) coronavirus that has not previously been seen in humans

There are many types of human coronaviruses including some that commonly cause mild upper-respiratory tract illnesses

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## VIRUS BASICS

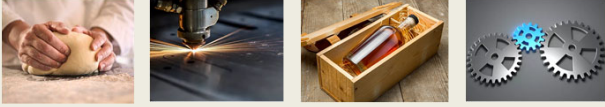
**Novel Coronavirus/COVID-19**

Coronaviruses are a large family of viruses that get their name from the halo of spiked proteins that adorn their outer surface, which resemble a crown (corona) under a microscope

With the discovery of SARS-CoV-2, there are now seven types of identified coronaviruses known to infect humans

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## VIRUS BASICS

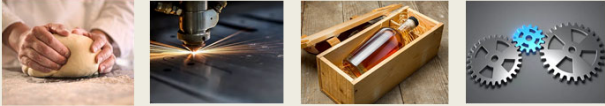
### Novel Coronavirus/COVID-19

**Common human coronaviruses**

1. 229E (alpha coronavirus)	circulate in humans and mostly cause mild to moderate upper-respiratory tract infections—common colds, essentially
2. NL63 (alpha coronavirus)	
3. OC43 (beta coronavirus)	
4. HKU1 (beta coronavirus)	

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## VIRUS BASICS

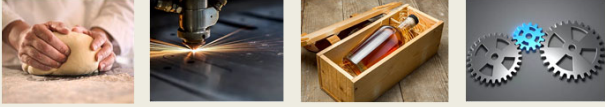
### Novel Coronavirus/COVID-19

**Other human coronaviruses**

5. MERS-CoV (the beta coronavirus that causes Middle East Respiratory Syndrome, or MERS)
6. SARS-CoV (the beta coronavirus that causes severe acute respiratory syndrome, or SARS)
7. SARS-CoV-2 (the novel coronavirus that causes coronavirus disease 2019, or COVID-19)

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## VIRUS BASICS

**Novel Coronavirus/COVID-19**

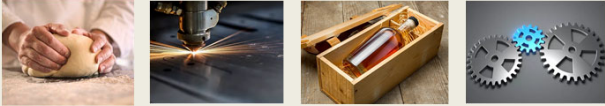
### How It Spreads

The virus is thought to spread mainly from person-to-person in two possible ways:

- Between people who are in close contact with one another (within about 6 feet) through respiratory droplets produced when an infected person coughs or sneezes. These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.



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## VIRUS BASICS

**Novel Coronavirus/COVID-19**

### How It Spreads

- By touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes



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**VIRUS BASICS**





**Novel Coronavirus/COVID-19**

**How It Spreads**

- Under investigation is a third way – airborne. Keeping a close watch.

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**VIRUS BASICS**

**Novel Coronavirus/COVID-19**

**How It Spreads**

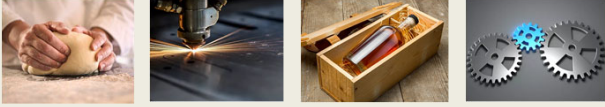
CDC believes that the predominate method of spread (over 85%) of the cases to be caused by close contact

Capjem believes the opposite to be true. 80% of the spread is caused by surface contact

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## VIRUS BASICS


**Novel Coronavirus/COVID-19**

### Virus Survival

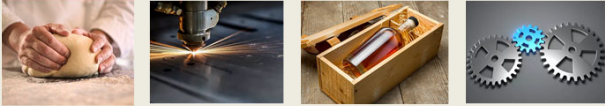
Lots of controversy and false information

This particular virus has never been studied

At room temperature human coronaviruses can remain infectious on inanimate surfaces at room temperature for up to 9 days

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## VIRUS BASICS


**Novel Coronavirus/COVID-19**

### Prevention





**Wash your hands often** - prior to eating, after eating, after being in a public place, after sneezing, coughing, or blowing your nose.

**Avoid touching your eyes, nose, and mouth**

**Avoid close contact** – 6 feet in public

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**VIRUS BASICS**





**Novel Coronavirus/COVID-19**

**Prevention**

- Stay home if you're sick**
- Cover coughs and sneezes**
- Clean and disinfect daily**
- Don't wear shoes in the house**

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**VIRUS BASICS**

**Novel Coronavirus/COVID-19**


**vs. "The Flu"**

**COVID-19** – as of March 12th

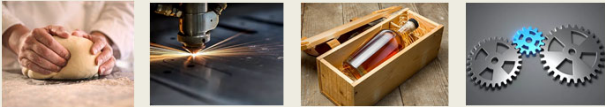
Cases	125,048 Global	1,215 US
Deaths	4,613 Global	36 US

**Influenza in US** – 2018-2019 season

- 35.5 million cases
- 16.5 million doctor visits
- 490,600 hospitalizations
- 34,200 deaths

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**VIRUS BASICS**

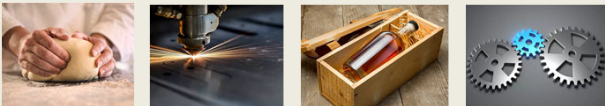
**Novel Coronavirus/COVID-19**

**Why the concern?**

- Transmission Rate
- Mortality Rate
- Novel
- No Vaccine
- News Media
- Social Media

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**VIRUS BASICS**

**Novel Coronavirus/COVID-19**

**Perception is Reality**

- Can't ignore the hype for the hype makes it real
- Need to accept that this is happening
- Don't get caught up in the hype
- Develop a plan to weather the storm

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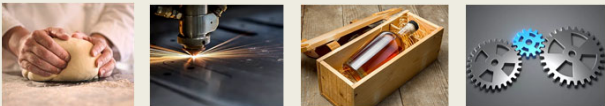
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**Capjem Hygiene Study**





**Novel Coronavirus/COVID-19**

Capjem conducted a 3-month direct observation study of the hygiene practices of 5,023 people

The study which took place in various cities across the United States sadly reveals that a majority of Americans do not employ basic personal hygiene practices, most importantly hand washing

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### Capjem Hygiene Study





**Novel Coronavirus/COVID-19**

It was also determined that even when people do wash their hands, the regimen followed was not effective for proper virus risk mitigation

These findings reveal the role hygiene plays in the current COVID-19 outbreak and its ability to rapidly spread through neglectful or improper hygiene practices



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### Capjem Hygiene Study

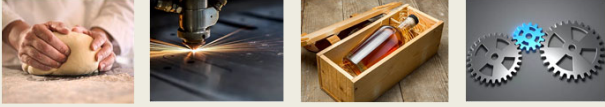
**Novel Coronavirus/COVID-19**

Of the observed within airports, restaurants, airplanes, and grocery stores:

- Only 2.5% washed hands effectively
- Average wash was only 10 seconds



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### Capjem Hygiene Study

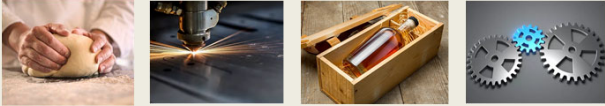
**Novel Coronavirus/COVID-19**

Of the observed within airports, restaurants, airplanes, and grocery stores:

- 65% did not wash hands after using a public restroom
- 80% of men did not wash
- 45% of women did not wash
- 95% touched the door with their hands to exit
- 0% washed hands after blowing their nose
- 0% washed hands after coughing

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### Capjem Hygiene Study

**Novel Coronavirus/COVID-19**

**For our health and longevity as human beings, we all have a responsibility to lead by setting a good example**

**We all have the power to affect change and make the world a safer place. The time to start is now.**

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**Protection**

**Novel Coronavirus/COVID-19**

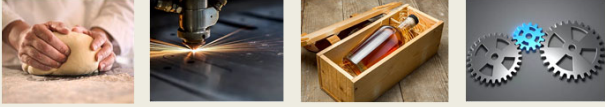
**Protection of Employees, Products, and Customers**

Main question we are receiving is what do I do to protect my business?

3 Fronts  
Protection of your Employees  
Protection of your Products  
Protection of your Customers

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**Protection**

**Novel Coronavirus/COVID-19**

**Protection of Employees, Products, and Customers**  
Protection of your Employees

- What is your sick leave policy?*
- What are your GMPs?*
- Work from home*
- Break and Lunch assessment*
- Meetings and Group gatherings*
- Employee communication*
- Plan on employee illness*

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**Protection**

**Novel Coronavirus/COVID-19**

**Protection of Employees, Products, and Customers**  
Protection of your Products

- Raw material risk assessment*
- Inventory*
- Product decontamination*
- Finance*
- Secondary Supplier program*
- Transportation risk assessment*
- Operating with a reduced workforce*
- Shipping risk assessment*

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**Protection**

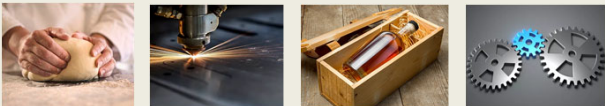
**Novel Coronavirus/COVID-19**

**Protection of Employees, Products, and Customers**  
Protection of your Customers

- Shipping risk assessment*
- Product decontamination*
- Customer Communication*
- Customer Service*
- Sales*
- Executive*

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**Protection**

**Novel Coronavirus/COVID-19**

**Protection of Employees, Products, and Customers**

Capjem has developed a Crisis Management Self-Assessment covering all aspects of business protection during the COVID-19 outbreak

This assessment is included with the webinar. Do not hesitate to reach out to Capjem through IMEC with any questions or issues you as a company are experiencing.

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**VIRUS THREAT MITIGATION**

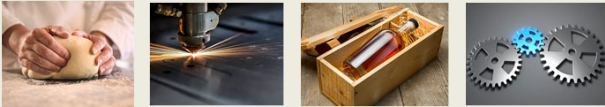
**Novel Coronavirus/COVID-19**

We are seeing a massive amount of businesses requesting information from their supplier's regarding:

- Product availability
- Supply Chain
- Continued Production
- Employee Health
- Product Contamination

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## VIRUS THREAT MITIGATION

**Novel Coronavirus/COVID-19**

Capjem has developed a Virus Risk Mitigation Program which offers a thorough review of your cGMPs, cGHPs, and Personnel Processing Practices in relation to risk mitigation of the COVID-19 virus

This program is currently being used by many businesses to ensure their customers that their products are, and will continue to be safe

More information regarding this program has been included in a flyer with this Webinar.



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## CONCLUSIONS

**Novel Coronavirus/COVID-19**

**Don't listen to:**  
Yahoo articles  
Dr. Oz  
Social Media  
News Media  
Friends

Take everything with a grain of salt  
Perception is Realty  
Stay Calm – Have a Plan – and .....



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**CONCLUSIONS**

**Novel Coronavirus/COVID-19**

**WASH YOUR HANDS!**

Thank you for your time and attention  
Capjem and IMEC are here to help you

For additional information or to speak to Capjem,  
please contact IMEC:  
Michelle Fossett  
Client Outreach Coordinator  
815-275-0159 Cell  
[mfossett@imec.org](mailto:mfossett@imec.org)

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