ISA Birmingham Section

Trend Recorder

April 15, 2020

ISA Birmingham Web Site: www.isa.org/Birmingham

ISA Birmingham Report
The ISA Birmingham Section Executive Team sends out its best wishes and hopes that you and your family are safe from the Corona Virus (COVID-19) infection. We encourage you to follow the latest guidelines from the Center for Disease Control (CDC) and from the government/health officials and leaders.

Due to health concerns and trying to follow all the rules for the safety of our ISA Birmingham Section membership, there are several changes to our plans for the
balance of the society year. They are noted in other sections of this newsletter for your reference and use.

This is the 75th Anniversary Year for ISA, and you may click on the following link to see a very interesting slide show of the history of ISA.

http://isa-5382318.hs-sites.com/75in2020

If you are interested in being a committee chair, member of a committee, or working in any area of leadership with the ISA Birmingham Section in 2020-2021, please let the nominating committee hear from you. Please contact Catherine Andrews (candrews@hilealabama.com) or Skip Wells (skipandalice@att.net) to learn what opportunities exist for these positions.

ISA Birmingham Short Course
POSTPONED
The ISA Birmingham Section has announced the postponement of the 50th Annual “Fundamentals of Industrial Automation, Instrumentation, and Control” training class. This popular and successful event was to take place on May 5 – 7, 2020, in the offices of Revere Control Systems in Hoover.

It will be rescheduled at a future date, depending on the situation and country health as we deal with the COVID pandemic. If the class cannot be held by the end of the summer of 2020, the class will be reset to take place as the 2021 offering in May of next year.
All enrolled participants will be allowed to request a refund, or retain a credit for the next offering of this class. This is an unfortunate situation, but many people, businesses, and volunteer organizations are suffering during this time.

All meetings and classes are cancelled until further notice of health clearances.

Anyone with suggestions as to program topics and presentations, should contact Mark Isbell at misbell@wgyates.com, with ideas and suggestions.

Essential info from JOHNS HOPKINS HOSPITAL re: Covid-19

More very useful info on our latest scourge...

* The virus is not a living organism, but a protein molecule (DNA) covered by a protective layer of lipid (fat), which, when absorbed by the cells of the ocular, nasal or buccal mucosa, changes their genetic code. (mutation) and convert them into aggressor and multiplier cells.

* Since the virus is not a living organism but a protein molecule, it is not killed, but decays on its own. The disintegration time depends on the temperature, humidity and type of material where it lies.

* The virus is very fragile; the only thing that protects it is a thin outer layer of fat. That is why any soap or detergent is the best remedy, because the foam
CUTS the FAT (that is why you have to rub so much: for 20 seconds or more, to make a lot of foam).

By dissolving the fat layer, the protein molecule disperses and breaks down on its own.

* HEAT melts fat; this is why it is so good to use water above 25 degrees Celsius for washing hands, clothes and everything. In addition, hot water makes more foam and that makes it even more useful.

* Alcohol or any mixture with alcohol over 65% DISSOLVES ANY FAT, especially the external lipid layer of the virus.

* Any mix with 1 part bleach and 5 parts water directly dissolves the protein, breaks it down from the inside.

* Oxygenated water helps long after soap, alcohol and chlorine, because peroxide dissolves the virus protein, but you have to use it pure and it hurts your skin.

* NO BACTERICIDE OR ANTIBIOTIC SERVES. The virus is not a living organism like bacteria; antibodies cannot kill what is not alive.

* NEVER shake used or unused clothing, sheets or cloth. While it is glued to a porous surface, it is very inert and disintegrates only between
  - 3 hours (fabric and porous),
  - 4 hours (copper and wood)
-24 hours (cardboard),
-42 hours (metal) and
-72 hours (plastic).
But if you shake it or use a feather duster, the virus molecules float in the air for up to 3 hours, and can lodge in your nose.

* The virus molecules remain very stable in external cold, or artificial as air conditioners in houses and cars.

They also need moisture to stay stable, and especially darkness. Therefore, dehumidified, dry, warm and bright environments will degrade it faster.

* UV LIGHT on any object that may contain it breaks down the virus protein. For example, to disinfect and reuse a mask is perfect. Be careful, it also breaks down collagen (which is protein) in the skin.

* The virus CANNOT go through healthy skin.

* Vinegar is NOT useful because it does not break down the protective layer of fat.

* NO SPIRITS, NOR VODKA, serve. The strongest vodka is 40% alcohol, and you need 65%.

* LISTERINE IF IT SERVES! It is 65% alcohol.

* The more confined the space, the more concentration of the virus there can be. The more open or naturally ventilated, the less.

* You have to wash your hands before and after touching mucosa, food, locks, knobs, switches, remote control, cell phone, watches, computers, desks, TV, etc. And when using the bathroom.
* You have to HUMIDIFY HANDS DRY from so much washing them, because the molecules can hide in the micro cracks. The thicker the moisturizer, the better.

* Also keep your NAILS SHORT so that the virus does not hide there.

-JOHNS HOPKINS HOSPITAL

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Dilbert Funnies

I'D LIKE TO HELP ON THE BLOCKCHAIN PROJECT TO BUILD MY SKILLS IN THAT AREA.

I DON'T LIKE IT WHEN PEOPLE LEARN NEW THINGS.

I... DON'T KNOW WHAT TO SAY TO THAT.

OH, GOOD. IT WORKED.

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ISA Birmingham Leaders 2019 – 2020

http://www.isa.org/birmingham
President: Meg Moore – W.G. Yates Company (mioore@wgyates.com)
Vice President: John Cover – BBP (cover.john5@gmail.com)
Treasurer: Patrick Joseph – Southern Company Services (pjiopseh@southernco.com)
Secretary: Steven Holland – W. G. Yates Company (sholland@wgyates.com)
Past President: Jim Key – Southern Company Services (jimkey@southernco.com)
Section Delegate: John Cover – BBP (cover.john5@gmail.com)
Program Chair : Mark Isbell – W. G. Yates Company (misbell@wgyates.com)
Education Chair – Gerald Wilbanks – DES (gwilbankspe@charte.com.net)
Membership Chair: Catherine Andrews – Hile of Alabama (candrews@hilealabama.com)
Honors & Awards Chair: Gerald Wilbanks – DES (gwilbankspe@charte.com.net)
Web Master: Jimmie Johnson – Southern Company Services
(jimjohns@southernco.com) Elizabeth Clarkin – Southern Company Services
(epclarkin@southernco.com)
Marketing Chair: Chris Sorensen – Southern Company Services (chris.sorensen@juno.com)
Publications Chair: David Hyche – KBR (david.hyche@kbr.com)
Standards & Practices Chair: Jim Key – Southern Company Services (jimkey@southernco.com)
Historian: Skip Wells – Southern Company Services (skipandalice@att.net)
Student Section Liaison: Yao Wang – Southern Company Services (ywang@southernco.com)
Section Division Liaison : Charles Morris (c.morris7711@gmail.com)
ECOB Liaison: Cliff Fleming – Control Equipment Company (cfleming@eadsdistribution.com)
President Advisory Team and Special Assignment:
Delane Ponder – Southern Company Services (X2ponder@southernco.com)
Grady Andrews – Hile Controls of Alabama (gandrews@hilealabama.com)
Cliff Fleming – Control Equipment Company (cfleming@eadsdistribution.com)
Frank Flow – Flexim Inc. (fjflow@yahoo.com)
John Edge – Sick (john4auburn@gmail.com)
Kiumars Bahri – Southern Company Services (kbahri@aol.com)

Technical Brain Teaser
Which statement best describes the relay logic diagram in the figure below?

a. Trip F.D. fan if furnace pressure goes high and trip I.D. fan if it goes low. Trip fuel if drum level goes low for more than 10 seconds with override switch in the auto position
b. Trip F.D. fan and I.D. fan if furnace pressure goes high or low, and trip fuel if drum level goes low for more than 10 seconds with override switch in the auto position
c. Trip Fuel, I.D. and F.D. fan if furnace pressure goes high or low for more than 10 seconds, or if drum level goes low with override switch in the auto position
d. Trip Fuel, I.D. fan and F.D. fan if furnace pressure goes high or low, or if drum level goes low for more than 10 seconds with override switch in the auto position
e. Sound alarm if furnace pressure goes high or low for more than 10 seconds, or if drum level goes low for more than 10 seconds. Trip if override switch is in the auto position.

Scroll down for the answer
**Matt's Word for the Day**

Asynchronous

[ə-ˈsɪŋkrə-nəs]

Part of speech: adjective
Greek, 18th century

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<th>1. Not occurring simultaneously</th>
<th>2. (In digital communication) Having many operations that are not coordinated by a centralized clock or timing system</th>
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**Examples of Asynchronous in a sentence**

"Our asynchronous class schedule means that I'll never get to have lunch with my boyfriend this semester."

"He discovered the problem with the computer program was in the setup of the asynchronous system."