



HAPPY NEW YEAR 2016

TRANSMITTER JANUARY 2016



NIAGARA FRONTIER SECTION

TRANSMITTER

INSTRUMENT SOCIETY OF AMERICA

Volume 34 Number 7

March 1986

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30 years ago

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3. Impact of Smart Transmitters on Chemical Processing/Distillation

Our speaker is Stanley L. Whitman of Honeywell Inc., an Application Engineer with Process Controls Division in Ft. Washington, Pennsylvania. Prior to joining Honeywell, Stan was a Senior Application Engineer with Dupont. Stan is a member of AIChE and has a B.S. in Chemical Engineering from the University of Florida. He also spoke at ISA '85 in Philadelphia on the Impact of Smart Transmitters on Flow Meters - Vortex vs. Orifice.

FEES (LUNCHEON INCLUDED)

- I.S.A. Members - \$20.00
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Too Much Sitting Kills—Even if You Exercise

By Wendy Bumgardner

about health — abouthealth.com

Written or Medically reviewed by a board-certified physician

Sitting might be killing you, even if you get in a daily dose of moderate or intense exercise. Research is mounting that hours of sitting is its own health-risk factor.

SITTING STILL RISKS FOUND:

- **Sitting Raises Risk of Type II Diabetes, Cardiovascular Disease, and Early Death:** A compendium of studies published in 2012 found that sitting for long periods raised the relative risk of type II diabetes and cardiovascular disease over 100%; the association was strongest for diabetes. The studies found this effect regardless of whether the sitter got the recommended amount of moderate and vigorous intensity exercise the rest of the day.
- **Sitting Slows Metabolism:** Dr. Marc T. Hamilton says research shows that fat-burning is slowed by prolonged sitting, so you burn less fat when you finally get up and exercise. "Sitting time and non-exercise activity have been linked in epidemiological studies to rates of metabolic syndrome, type 2 diabetes, obesity and cardiovascular disease," Dr. Hamilton concludes.
- **Sitting Increases Diabetes Risk in Women:** A study found that the more sitting hours per day reported by women over age 40, the more their markers of insulin resistance and inflammation were increased. This points to an increased risk of developing type 2 diabetes. This was true whether or not they got moderate exercise each day.
- **Two-Minute Walk Breaks Improve Glucose Control and Insulin Response:** Breaking up sitting time with two-minute walk breaks every 20 minutes improved the body's response to a meal by 30% in a 2012 study. The study simulated an office environment with middle-aged, overweight people. Walking at light or moderate intensity for two minutes after each 20 minutes of sitting helped maintain glucose control and insulin response. There may be good benefits in developing habits of getting up more frequently during the workday and at home while video gaming, watching television or using the computer.
- **Screen Time Is a Health Risk:** Two hours a day of sitting in front of the TV or computer may double your risk of a heart attack or other cardiac event. Four hours a day of screen time increases your risk of death by any cause by 50%, according to findings of a study of more than 4,500 middle-aged men in Scotland.
- **Sit More-Die Younger:** The American Cancer Society's Cancer II study of more than 100,000 healthy people tracked since 1992 found that women who sit for more than six hours during their leisure time each day had a 37% greater chance of death than women who sat for three hours or less. Men had an 18% greater chance of death. This finding was independent of whether the people got in a good dose of exercise each day. However, the good news is that those who also got exercise had a lower risk of death than those who didn't—just not enough to overcome the presumed effects of the sitting hours.
- **Sounding the Alarm About Sitting:** An editorial in the *British Journal of Sports Medicine* concluded that "recent observational studies have suggested that prolonged bouts of sitting time and lack of whole-body muscular movement are strongly associated with obesity, abnormal glucose metabolism, diabetes, metabolic syndrome, cardiovascular disease risk and cancer, as well as total mortality independent of moderate to vigorous-intensity physical activity," say the authors.

(Continued on page 10)



IoT - INTERNET OF THINGS

BY: FRITZ PURKERT, SECTION DELEGATE

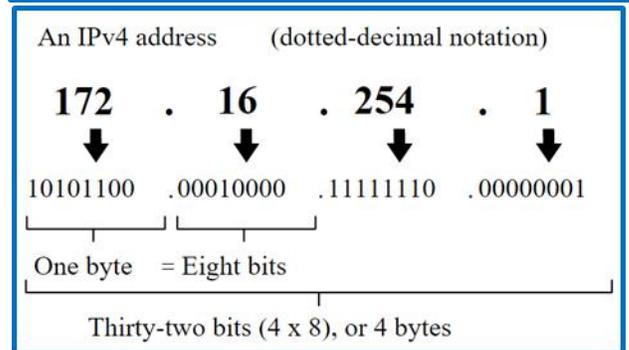
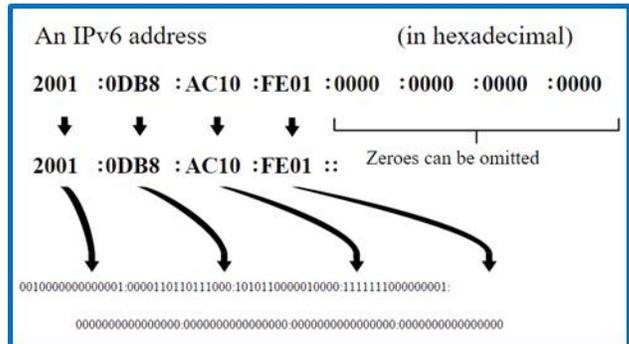
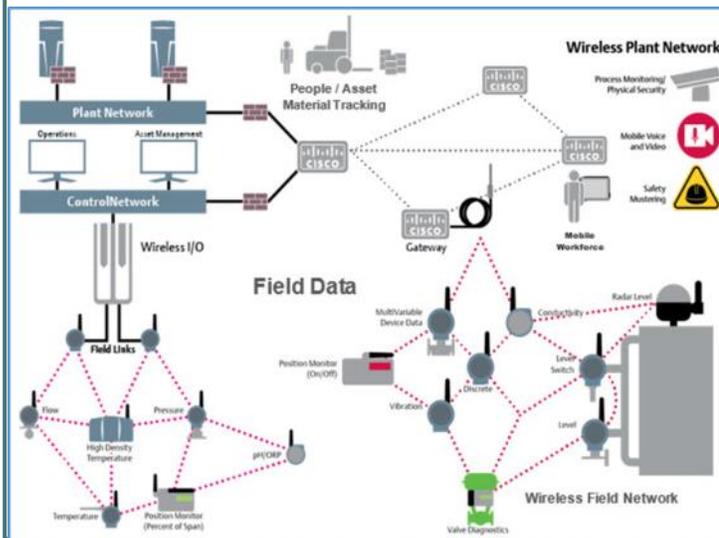
What is Internet of Things (IoT)?

In many Cultures the parable of the blind men and the elephant is known. The blind men describe the elephant by touching different parts of the animal. The man touching the trunk describes the elephant differently than the one touching the leg, and there are yet other descriptions from those touching the tusks, tail, ears, etc. Now we have a new elephant to assess: the Internet of Things.

The Internet of Things is an environment where objects, any object (people, animals, automobiles, sensors, processes, etc.) are assigned unique identifiers (IP addresses) and given the ability to transfer data over a network without requiring human interaction. So far the internet of things has mostly associated with machine-to-machine (M2M) communication in manufacturing, power production, and oil and gas utilities. IoT has convergence of wireless technology, micro-electromechanical systems (MEMS) and the internet. The industrial side of IoT now distinguished itself as industrial internet of things or IIoT (remember the elephant).

The explosion of internet enabled devices and increase of internet nodes was and is only possible by adopting the larger address space of IPv6 compared to the addressing of IPv4. IPv4 addresses are 32 bits long which provides approx. 4.3×10^9 (4.3 billion) addresses. IPv6 addresses are 128 bits long with an addressing capability of 3.4×10^{38} (340 undecillion). IPv6 addresses are written in eight groups of four hexadecimal digits. The groups are separated by colons, for instance, 2015:0db8:69a3:0000:0000:62e5:0560:770f. This huge address space should deem sufficient for the foreseeable future. This new concept may be referred to as Internet of Everything (IoE). There are a number of hurdles to take. The interoperability of the IPv4 and IPv6 will cause some latency because of the necessity to convert the space addresses from one system to the other.

Continued from page 4



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(Continued from page 3) **IoT - INTERNET OF THINGS**

Pervasive sensing is another name for the strategy of pulling together information for better understanding of potential benefit and process value. This includes

- Health, Safety, Security, Environmental (HSSE)
- Reliability Data
- Energy consumption and control
- Process Control
- People management and productivity

It enables the industry to address larger areas for more and better data and actionable information. It incrementally enables us to expand node sensing strategies without having to run more wires by applying wireless solutions. This strategy applies for additional monitoring the performance of a simple heat exchanger as well as for the collection of weather data from hundreds of ocean buoys.



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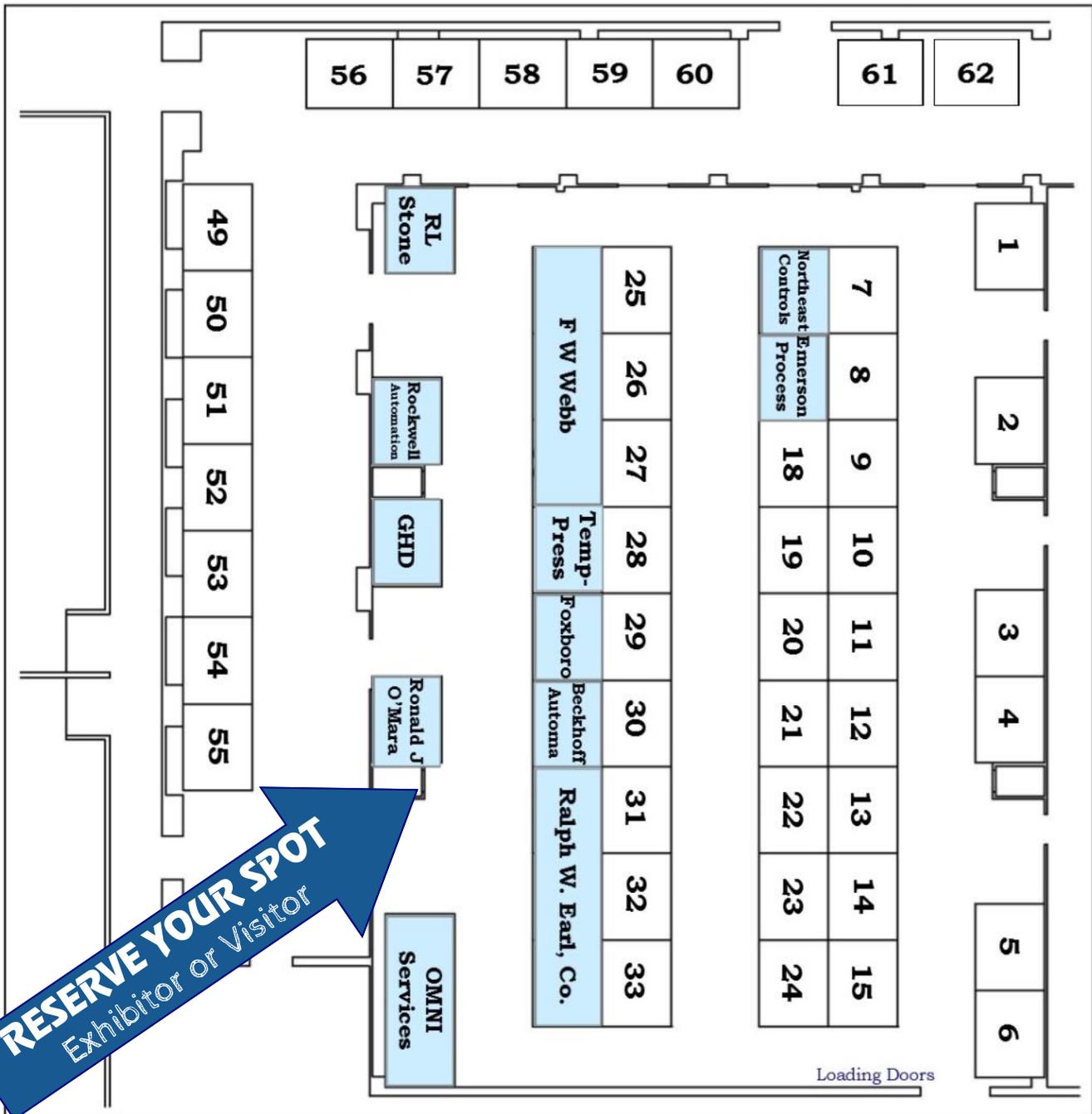
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REGISTRATION REQUIRED WWW.ISA-NIAGARA.ORG/tech-expo-2016

MORNING OF EDUCATION

- Seminar 1: "Sub Metering of HVAC & Utility Fluids"
- Seminar 2: "Vapor & Flame Control Equipment"
- Seminar 3: "Specification & Application of Flowmeters"
- Seminar 4: TBD

EXHIBITION 2016

11:00noon - 6:00pm
Register at: www.isa-niagara.org

Buffalo Marriott Niagara, 1340 Millersport Highway., Amherst, NY 14221





EXHIBITOR BOOTHS, ADVERTISING & SEMINARS

SECTION 1: Exhibitor Contact Detail (for publication in Expo Program)

Company Name	Contact	Email	Phone #
Company Address	City	State	Zip
ISA Section Affiliation	**ISA Member Number**	Company URL	Alt Phone #

SECTION 2: Exhibitor Booth w/AD Selection

Save \$50! Register by March 1, 2016

Booth plus Ad:	#	Member Pricing		#	Non-Member Pricing	
			After 3/1			After 3/1
Booth w/Business Card		\$525.00	\$575.00		\$585.00	\$635.00
Booth w/Half Page Ad		\$600.00	\$650.00		\$660.00	\$710.00
Booth w/Full Page Ad		\$675.00	\$725.00		\$735.00	\$785.00

	#	Day of Show		#	Day of Show	
Additional 6' Table		\$30.00	\$40.00		\$40.00	\$50.00
Additional 8' Table		\$30.00	\$40.00		\$40.00	\$50.00
+ Table TOTAL		\$	\$		\$	\$

Booth Location Preference

Location Preference:
 1st _____ 2nd _____ 3rd _____
 Placement is made on a First Come basis and Receipt of Payment. All effort be made to satisfy requests but no guarantee can be made. All final booth location decisions are at the discretion of the ISA Tech Expo 2015 Committee.

SECTION 4: Expo Program Advertising

Full Page / Line Card # _____ \$250.00 \$ _____
 Half Page Ad # _____ \$150.00 \$ _____
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ADVERTISING TOTAL: \$ _____

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SECTION 3: Sponsor Order

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SECTION 5: Order Recap & Total

Exhibitor Booth Total	\$ _____
Additional Table Total	\$ _____
Tech Expo Sponsor Total	\$ _____
Additional Advertising Total	\$ _____
TOTAL PAYMENT DUE:	\$ _____

Exhibitor Registration: 8:00a.m.—10:30a.m. Tuesday, April 12, 2016

Checks payable to: **ISA-NIAGARA FRONTIER**
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THE EASIEST WAYS TO DONATE YOUR OLD TECH

Charities want your old devices -- even if they're broken.

When you upgrade to a new phone, what do you do with your old one? You might sell it or give it to a friend or family member...or you might stick it in a drawer where it will wait to be discovered by future, nostalgic you.

Instead of letting tech waste away in a junk drawer, maybe you should consider donating it. Working technology -- even if it's old -- is expensive, and nonprofit organizations aren't exactly rolling in cash. Lots of charities would love to repurpose, recycle or sell your old devices (working or not) and offer you a tax break too.

Here are some places where you can quickly and easily donate your old tech, from smartphones and tablets to USB flash drives and fitness trackers.

Phones and tablets

Plenty of charities are willing to take old phones and tablets off your hands.

Cell Phones for Soldiers is a nonprofit organization that offers free communication services for deployed troops, as well as veteran assistance. This charity accepts phones, tablets and accessories in any condition. You pay for shipping (unless you're shipping 10 or more phones, in which case you can print a pre-paid shipping label), and both the donation and the shipping costs are tax-deductible.

Verizon's Hopeline organization helps victims and survivors of domestic violence. Hopeline accepts phones, batteries, chargers and accessories in any condition (and from any carrier). Verizon will pay for you to ship your device to Hopeline; you may also take your donation to a local Verizon store.

Hope Phones is the phone donation branch of Medic Mobile, a nonprofit organization that helps fund health care programs in Africa, Asia and Latin America. Hope Phones accepts phones, batteries, chargers and accessories in any condition; the charity recycles donations and uses the proceeds to purchase new mobile tech for health care workers. Hope Phones pays for shipping, and your donation is tax-deductible.



While most mobile device charities will either refurbish your device or recycle it, you should still take precautions and make sure the device is wiped clean of any personal data before you hand it over.

Laptops and desktops

If your laptop works and is less than seven years old, InterConnection makes donation a snap. InterConnection is a Seattle-based nonprofit that repurposes old tech for nonprofits, schools, libraries, low-income families and disaster relief. The organization accepts laptops in any condition as long as they

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(Continued from page 8)

boot up, and promises to wipe your device of all data before putting it into circulation. InterConnection pays for shipping for laptop and phone donations, but if you want to donate a larger computer (such as a desktop) you can also drop off donations at one of its Washington locations.

For desktop donations, you'll probably need to look locally. Goodwill accepts electronics donations (including computers, monitors, keyboards, mice and other accessories). You may also want to ask public libraries or schools if they need an extra machine, especially if your computer is relatively new and in good working condition. Like phones and tablets, laptops and desktops should be wiped clean before donating -- it's not enough to just reformat the hard drive.

Activity trackers

Instead of letting your old Fitbit rot in the bottom of your gym bag, consider donating it to RecycleHealth. Tufts University-sponsored charity RecycleHealth is looking for fitness trackers to use in pilot fitness programs for people who can't afford them. The organization is looking for working fitness trackers of any brand and offers a prepaid shipping label on its Facebook page. RecycleHealth has nonprofit status through Tufts University, so your donation is tax-deductible.

Video games and consoles

When you tire of stomping radroaches in the Commonwealth, donate your gamer gear -- consoles, controllers and games -- to

the Get-Well Gamers Foundation. The Get-Well Gamers Foundation is a nonprofit organization that supplies children's hospitals around the world with electronic entertainment. The foundation accepts classic and next-gen consoles, controllers, new and used games and accessories. You pay shipping, but the foundation will send you a tax-deductible receipt if you include a note with your name and return address.

Cords, cables and flash drives

If you donate a device, such as a phone or a laptop, you'll want to bundle it with its cords and cables. But what about all those extra cables you've somehow managed to accumulate? Your local Goodwill accepts computer accessories -- cables and USB cables included. You'll need to take your untangled mass of cables to a Goodwill location to donate; your donation is tax-deductible.

If you've managed to amass a pile of promotional USB flash drives, head over to RecycleUSB. RecycleUSB is a non-profit website that has teamed up with learning platform Sugar Labs to turn old flash drives into portable learning centers for children aged 5 to 12. RecycleUSB accepts working flash drives that are 1GB or larger. You pay shipping, and your donation is tax-deductible.



By Sarah Jacobsson Purewal
c|net.com
December 30, 2015



JOINT SOCIETY HOLIDAY SOCIAL



Celebrating with friends and colleagues, what a great way to bring in the holidays.

If you didn't join us this year, don't worry, you'll have another chance next year. See you there.





2016 Section Calendar

<i>Annual Golf Outing</i>	<i>September 21, 2015</i>	<i>Diamond Hawk Golf Course</i>
<i>Technical Discussion & Plant Tour</i>	<i>October 19, 2015</i>	<i>Lockhouse Distillery</i>
<i>Professional Society Holiday Social</i>	<i>1st week December</i>	<i>Gordon Biersch</i>
<i>Technical Tour and Discussion</i>	<i>February 2016</i>	<i>Buffalo State College</i> <i>New State of the Arts Technology Building</i>
<i>Technical Discussion & Plant Tour</i>	<i>March 2016</i>	<i>IMA Life</i>
<i>Tech EXPO 2015</i>	<i>April 12, 2016</i>	<i>Marriott Inn</i> 11am—6pm
<i>Morning of Education:</i>	<i>April 12, 2016</i>	<i>Marriott Inn</i> 8:30 am—2:00 pm
<i>Technical Discussion & Plant Tour</i>	<i>May 2016</i>	<i>Steuben Foods</i>
<i>Technical Discussion & Plant Tour</i>	<i>June 2016</i>	<i>Col Ward Pumping Station</i>

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Presenter:

Scott Hunt

Flow Specialist, Rosemount Div of Em-
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Seminar 2

Vapor & Flame Control Equipment

Presenter:

Nick Marocchi

Eastern Regional Sales Manager, The
Protectoseal Company

Seminar 3

Specification & Application of Flowmeters

Presenter:

Fritz Purkert

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Length: 1½ hours

Award: 1½ Professional Development (PDH)
upon request

TUESDAY, APRIL 12, 2016

REGISTRATION REQUIRED WWW.ISA-NIAGARA.ORG/tech-expo-2016

MORNING OF EDUCATION

Seminar 1: "Sub Metering of HVAC & Utility Fluids"

Seminar 2: "Vapor & Flame Control Equipment"

Seminar 3: "Specification & Application of Flowmeters"

Seminar 4: TBD

EXHIBITION 2016

11:00noon - 6:00pm

Register at: www.isa-niagara.org

