Christmas Party Time

It is that time of the year again and the ISA Birmingham Section is planning to celebrate this Christmas Season with a gala get together.

- **Christmas Party:** Tuesday, December 4, 2018
  - **Location:** John and Heather Cover Home – 2104 Fox Valley Circle, Birmingham
  - **Time:** 6:00 PM until 9:00 PM
  - Bring a dish and come on out next Tuesday.
  - Plan on fun, food, fellowship and friends as we gather at this special time of the year.
  - You do not want to miss the games and an opportunity to visit with your ISA friends and co-workers. This is very informal and you are encouraged to wear that Ugly Christmas Sweater.
  - This will be a time of casual relaxation, informal time together, and holiday partying.
Visit the ISA Birmingham web site:
www.isa.org/birmingham

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- Vice President: Meg Moore – KBR Engineering (meg.moore@kbr.com)
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- Past President: Frank Flow – Flexim Inc. (fnflow@yahoo.com)
- Program Chair: Mark Isbell – W. G. Yates Company (misbell@wgyates.com)
- Education Chair: Gerald Wilbanks – DES (gwilbankspe@charter.net)
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- Historian: Skip Wells – Southern Company Services (skipandalice@att.net)
- Student Section Liaison: Yao Wang – Southern Company Services (ywang@southernco.com)
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- 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)
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  Kiumars Bahri – Southern Company Services (kbahri@aol.com)

ISA Birmingham Section Honorees

The Honors and Awards Committee of the ISA Birmingham Section is pleased to announce the recognitions for the 2018 annual awards. Each year the section seeks to nominate a recipient for Engineer of the Year, Young Engineer of the Year, and a Distinguished Service Award. The nominees are recognized at the Engineer’s Week Banquet in February and also at the section H&A Dinner in May.

The 2018 Engineer of the Year (EOY) for ISA is John Sorge, of Southern Company Services, and a long-time senior member of the ISA Birmingham Section. This award is based on engineering achievements and overall contribution to both the technical community and to the civic community at large. The recipient is to be more than 35 years of age, reside in the general Birmingham area, and be
a member of the nominating society. John is a licensed professional engineer in the state of Alabama, and has worked in power generation for many years. Please join us in congratulating John for this recognition of his contributions to the engineering profession.

The **2018 Young Engineer of the Year (YEOY) for ISA is Steven Holland of W.G. Yates Company.** The recipient is to be less than 35 years of age, reside in the general Birmingham area, and be a member of the nominating society. Please join us in congratulating Steven for his work in the early stages of his automation and control field of practice.

The **2018 Distinguished Service Award for ISA goes to Cliff Fleming of Control Equipment company** and a long-time leader of the ISA Birmingham Section. This award is based on service to the nominating society, and overall contributions to the technical community and to the civic community. Cliff has served in many capacities with the ISA Birmingham Section, including president, vice-president, secretary, Product Education chair, and continues as the ISA Birmingham Section representative to the Engineering Council of Birmingham (ECOB). In addition, he has served on many important task forces and committees to improve the section services to the members and customers. Please join us in congratulating Cliff for this well-deserved recognition of his continued achievements and contributions to ISA and the Birmingham Section.

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**Mark Your Calendar:**

- **Technical Meeting:** Tuesday, January 8, 2019  
  Time: 4:00 PM  
  Speaker: Paul Gruhn PE, CFSE – aeSolutions – Houston, Texas  
  Topic: **“The Next Bhopal”**  
  Location: Revere Control Systems  
  **YOU DO NOT WANT TO MISS THIS PROGRAM!**

- **Honors and Awards Dinner:** National Engineers Week  
  Sponsored by the Engineering Council of Birmingham (ECOB)  
  February 19, 2019  
  Location: Harbert Center – Birmingham, Al
• 49th Annual training class: “Fundamentals of Industrial Automation, Instrumentation, and Control”
  May 7 – 9, 2019 (8:00 AM until 4:00 PM)
  Location: KBR Engineering in Birmingham
  Information and registration information:

  https://www.isa.org/events-conferences/events-calendar/event-details/?productId=62875972

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

  SAFETY TOPIC

  CONSTRUCTION INDUSTRY
  Top Ten Violations in Construction FY 2018

  1. Fall Protection – General Requirements (1926.501)
  2. Scaffolding (1926.451)
  3. Ladders (1926.1053)
  4. Fall Protection – Training (1926.503)
  5. Eye and Face Protection (1926.102)
  6. General Safety and Health Provisions (1926.20)
  7. Head Protection (1926.100)
  8. Aerial Lifts (1926.453)
Dilbert Funnies

DILBERT

I put together a plan for our data center project.

We don't need a plan. We're an agile company.

It's better to move fast and fix our mistakes as we go.

You're thinking of software, where the cost of mistakes is low. This is a construction project.

That data center will be full of software, will it not?

Yes, but...

Don't be afraid of change.

What if I rapidly make a plan and tell you I didn't?

Is that agile enough for you?

I'll need to Google that.

Technical Brain Teaser
If a standard electronic flow transmitter, with a linear output, has a range of 0 – 2000 lb/hr (0 – 907 kg/hr) and the flow is 200 lb/hr (90.7 kg/hr.), what is the output of the transmitter in ma?

a. 1.6 ma  
b. 5.6 ma  
c. 10.6 ma  
d. 18.4 ma

Scroll Down for the Correct Answer

Answer

The correct answer may be determined by calculating the per cent of the range that is represented by 200 GPM. This per cent will be the same value to use for calculating the output, by multiplying the per cent times the 16 ma span of the linear output transmitter. Care must be taken to add the 4 ma bias back to the output, for the proper answer.
\[
\frac{200}{2000} = 10\% \text{ of range (0-2000 GPM)}
\]

\[
4 - 20 \text{ Ma} = 16 \text{ Ma span} \quad \frac{16}{2000} = \frac{.008 \text{ Ma}}{\text{GPM}}
\]

\[
200 \text{ GPM} \quad \frac{.008 \text{ Ma}}{\text{GPM}} = 1.6 \text{ Ma}
\]

output = 1.6 + 4 = 5.6 Ma

Answer is B 5.6 Ma