ISA Birmingham Section Meeting  
October 8, 2019

The next meeting of the ISA Birmingham Section is set for Tuesday, October 8, 2019, and anyone interested in control systems, process control, and automation are invited to attend the session.

- **Technical Meeting:** Tuesday, October 8, 2019
- **Time:** 4:00 PM – 5:15 PM
- **Topic:** “Lithium Ion Battery Technology”  
  **Speaker:** Mr. Steven Boyles  
  Critical Power Systems Manager  
  Schneider Electric
- **Location:** W.G. Yates Company  
  Ground Floor Training Room,  
  1853 Data Drive, Birmingham, AL 35244

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**ISA Member Benefits**

Please spread the word and encourage others to join ISA to receive these and many other benefits of membership. We are always encouraging others to be a part of the ISA Birmingham Section and help reach our educational and member benefit goals.

- **ISA Member Directory** - Find other ISA professionals by accessing our Member Directory. Available exclusively to members logged into the isa.org
web site or through the ISA Connect mobile app. (IOS version is available at iTunes. Android version will be available soon.)

- **Local Section Membership** - Network with automation students and professionals in your local sections for meetings, training events, plant visits, and more. Virtual Student Members are not assigned to a local section.

- **ISA Jobs** - List your resume online for free when you’re looking for your next career move.

- **Email Lists** - Join open forums for discussions on topics that matter to you, via the ISA LISTSERV.

- **Conferences, Exhibitions, and Symposia** - Come face-to-face with fellow ISA practitioners as you learn, share, and network. Member discounts are available for these activities.

- **Local Training Courses** – Gain knowledge and better understanding of the technical skills needed to do your job. Member discounts are given by the ISA Birmingham Section.

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**ISA Birmingham Section Hosts UAB Student Event**

On Tuesday, September 23, 2019 the ISA Birmingham Section hosted an informational Pizza Party for UAB Students who were interested in forming an ISA Student Section on Campus in Birmingham. Yao Wang, the section Student Section Liaison, was responsible for arranging for the session and organizing the overall plans for the event. Several section members participated in the outing and included Jim Key, Patrick Joseph, and Beth Clarkin.

Over 30 students came into the meeting with several indicating a real interest in what a student section of ISA can mean to them and their future careers in engineering. Yao indicated that a number of the students said that they would be willing to serve as officers for the section, and Dr. Nelson took part as a possible faculty adviser for the fledgling group. In addition, there was a large amount of pizza consumed by the attendees in a very informal and engaging setting.
Former ISA Birmingham Section President, Jim Key, presents the overall ISA story and how membership in ISA can be a major benefit to students as they look to enter the work force.
Some of the ISA Birmingham and UAB leadership who participated in the ISA Student Pizza Party in Birmingham on Tuesday, September 23, 2019. This included (L to R) – Yao Wang (ISA Birmingham Student Liaison), Patrick Joseph (ISA Birmingham Section Treasurer), Beth Clarkin (ISA Birmingham Section Web Master), and Dr. Dalton Nelson (UAB Professor of Electrical and Computer Engineering).
Over 30 students expressed an interest in ISA and the possibility of setting up a student section on the UAB campus. Yao Wang discusses the next step and how the process works for obtaining a section charter from ISA, while Patrick Joseph works with individuals interested in becoming an officer and leader of the student section.

Mark Your Calendar:

- ISA Birmingham Section Technical Meeting: Tuesday, October 8, 2019, 4:00 PM, W. G. Yates Company
  Topic: “Lithium Ion Battery Technology”
  Speaker: Mr. Steven Boyles
  Critical Power Systems Manager
  Schneider Electric
ISA Birmingham Section Technical Meeting: Tuesday, November 12, 2019, 4:00 PM, W. G. Yates Company, Topic TBD.

ISA Birmingham Section Christmas Party: Tuesday, December 10, 2019, 6:00 PM – 9:00 PM, Home of John and Heather Cover, 2104 Fox Valley Circle, Birmingham, AL 35216

ISA Birmingham Section Technical Meeting: Tuesday, January 14, 2020, 4:00 PM, W. G. Yates Company, Topic TBD.

Engineering Council of Birmingham Dinner: February 18, 2020
Harbert Center – Birmingham, AL

50th Annual Short Course: May 5 – 7, 2020
Revere Control Systems
Birmingham, AL

Honors and Awards Dinner: Tuesday, May 12, 2020

Anyone with suggestions as to program topics and presentations, should contact Mark Isbell at misbell@wgyates.com, with ideas and suggestions.
ISA Birmingham Leaders 2019 – 2020

Visit the ISA Birmingham web site:  www.isa.org/birmingham

- President:  Meg Moore – W.G. Yates Company (mmoore@wgyates.com)
- Vice President:  John Cover – BBP (cover.john5@gmail.com)
- Treasurer:  Patrick Joseph – Southern Company Services (pvsjoseph@southernco.com)
- Secretary:  Steven Holland – BBP (holland6704@hotmail.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@charter.net)
- Membership Chair:  Catherine Andrews – Hile of Alabama (candrews@hilealabama.com)
- Honors & Awards Chair:  Gerald Wilbanks – DES (gwilbankspe@charter.net)
- Web Master:  Jimmie Johnson – Southern Company Services (jimjohns@southernco.com)
- Marketing Chair:  Chris Sorensen – Southern Company Services (ccsorens@southernco.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 (cmorris7711@gmail.com)
- ECOB Liaison:  Cliff Fleming – Control Equipment Company (cleming@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 (cleming@eadsdistribution.com)
  Frank Flow – Flexim Inc. (fnflow@yahoo.com)
Matt’s – Word for the Day

Portentous

adjective

1. Relating to a serious matter; ominous
2. Performed in a pompous manner in an effort to impress
3. Self-important to the point of pompousness

Examples of Portentous in a sentence

"The portentous skyscraper was impossible to ignore."

"The 'Keep Out' sign was a portentous warning."

Technical Brain Teaser
TK-1 has a capacity of 30,000 barrels (US). It is required to fill TK-1 in 6 hours. FV-1 will need to be sized for a flow rate (gpm) of most nearly:

(A) 3,500  
(B) 5,000  
(C) 7,143  
(D) 21,000

**Scroll Down for the Correct Answer**

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**Answer**

You must calculate the number of gallons to be transferred in the 6 hour time frame to tank TK-1. The 30,000 barrels is multiplied by 42 gallons per US barrel, or 1,260,000 gallons must be moved in 360 minutes. Therefore, the flow rate would be 1,260,000 divided by 360, which equals 3500 gallons per minute (gpm).

The correct answer is (A).