June Leadership Team Meeting

The ISA Birmingham Section Leadership Team held its first planning meeting as details were formed for some meetings and activities for the new section year. Jimmy Key, Southern Company Services, is the president for the 2018-2019 time frame and gathered the officers and committee chairs together to discuss meeting times, dates, locations, topics, and other matters dealing with the monthly schedules. The plans for activities and member involvement will center on the following goals for the year, just as they have in past years.

The aims and objectives of the ISA Birmingham Section are to:

- Provide opportunities for members to develop their professional leadership skills.
- Develop programs for technical information dissemination to personnel in the automation and control field of practice.
- Conduct fundamental technical training for individuals in automation and control.
• Establish ways and means for networking and information sharing.
• Promote automation, control and instrumentation as a field of work for students.
• Establish communications and opportunities to share experiences with others in the automation, control and instrumentation field.

A good deal of discussion time was concerning some ways to involve students and other young people in the automation and control field of work and the ISA Birmingham Section. Also, there is a real concern about the need to get feedback from the industry about what is needed in technical information dissemination and programming.

Shape the ISA of tomorrow by voting today!
Your vote matters. As an eligible voting member of ISA, you have the opportunity to elect the Society’s leaders and directly influence the future of the organization.

VOTE NOW

Voting will close at 2359 EDT on 20 July.

Full candidate statements are included in the ballot.

<table>
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<tr>
<th>President-elect</th>
<th>Secretary</th>
<th>Treasurer</th>
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<tr>
<td>Eric C. Cosman</td>
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<td>Jon DiPietro</td>
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<td>Midland, MI, USA</td>
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<td>Manchester, NH, USA</td>
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Executive Board Member/Geographic
(2 seats)

- Mark Arkell, Calgary, AB, Canada
- Ramani Iyer, Pune, Maharashtra, India
- Scott Reynolds, Denver, CO, USA
- Kalpen Vachharajani, Sarnia, ON, Canada

Executive Board Member/Operational
(1 seat)

- Jim Garrison, Greenville, SC, USA
- Shari Worthington, Worcester, MA, USA

Executive Board Member/Technical
(1 seat)

- Mike Murray, Sarnia, ON, Canada
- Maurice Wilkins, Ilminster, Somerset, UK

Standards & Practices Department Vice President-elect

- Dennis Zetterberg, Houston, Texas, USA

Image and Membership Department Vice President-elect

- Jagdish Shukla, Baroda, Gujarat, India

Publications Department Vice President

- Vitor Finkel, Rio DeJaneiro, RJ, Brazil

Strategic Planning Department Vice President-elect

- Nicholas Sands, Newark, DE, USA

VOTE NOW
ISA Birmingham Leaders 2018 - 2019

- President: Jim Key – Southern Company Services (jimkey@southernco.com)
- Vice President: Meg Moore – KBR Engineering (meg.moore@kbr.com)
- Treasurer: Patrick Joseph – Southern Company Services (pvjoseph@southernco.com)
- Secretary: John Cover – A&E Engineering (john.cover@aeengr.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: John Bryant (jabryant@southernco.com)
- Historian: Skip Wells – Southern Company Services (skipandalice@att.net)
- Section Division Liaison: Charles Morris (c.morris7711@gmail.com)

Meet your 2018-2019 ISA Birmingham Leaders:

John T. Cover, P.E. – Secretary (A&E Engineering)
John is a systems integrator with experience in variety of greenfield and brownfield projects. He has served on the ISA Birmingham Section Education Committee, contributed to the program efforts, and been a regular participant at meetings. Responsibilities include estimation, design, programming, commissioning, and troubleshooting. Serves pharmaceutical, foundry, and automotive industries. Works with Siemens, Yokogawa, and Allen Bradley hardware. John was formerly employed at Southern Research in Birmingham, and currently resides in Vestavia with his wife Heather. For their off time, they enjoy travelling and working around the house.

John Cover, P.E. – Secretary ISA Birmingham Section
Mark Your Calendar:
The ISA Birmingham Section will not be meeting in June, July or August as we take a brief summer time break. The first meeting of the 2018-2019 section year will be our annual kick-off event, which will take place on Tuesday, September 11, 2018, at Logan’s Roadhouse on Highway 280. New members and visitors will be encouraged to attend and they will have free meals as a membership promotion.

- **Technical Meeting: Tuesday, October 9, 2018**
  Speaker: Rob Flynn – Delphian Corp.
  Topic: “Fundamentals of Gas Detection”
  Location: KBR Engineering

- **Technical Meeting: Tuesday, November 13, 2018**
  Speaker: John Cover – A&E Engineering
  Topic: “Experiences with HMI Design”
  Location: W.G. Yates Company

- **Technical Meeting: Tuesday, January 8, 2019**
  Speaker: To Be Announced
  Topic: TBD
  Location: Revere Control Systems

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

Which of the following flow measurement devices does not require a square root extraction of the output signal to get a linear response to the flow rate?

- a. Orifice plate and dp cell
- b. Magnetic flow meter
- c. Pitot tube
- d. Venturi meter
The orifice plate and differential pressure transmitter measures the pressure drop across the orifice and the volumetric flow rate is inferred by the square root of the pressure drop. All flow measurement devices which depend on pressure differential will have to use a square root extractor to linearize the signal to represent a linear variation in flow rate. Therefore, the Pitot Tube and Venturi Meter will have to employ a square root extractor, for a linear representation of the volumetric flow rate. However, the Magnetic Flow Meter measures the velocity of the flow stream of a conductive fluid using Faraday’s Law, so the volumetric flow measurement signal will be linear.

Answer is B Magnetic Flow Meter