The first goal listed in the ISA Birmingham Section Mission and Vision Statement is “Provide opportunities for members to develop their professional and leadership skills through a mentoring and teaching atmosphere”. In line with approaching that goal, President Meg Moore set up a training class to provide instruction for section members to improve their abilities to be a leader. Gerald Wilbanks was the instructor for a four hour session held in the training room at W. G. Yates Company on Thursday night, August 8, 2019.

The primary topics dealt with leadership fundamentals, meeting mechanics, and time management, as key factors in being an effective leader at work, in volunteer activities, social clubs, business meetings and with the family. There was good participation as the attendees took surveys to determine what areas needed improvement in their lives.

Patrick Joseph makes a point as he discussed a topic with John Cover and Meg Moore. Bill Butler and Larry Wells seem to be trying to gather the information for their use.
Instructor, Gerald Wilbanks explains one of the topical areas as Hassan Tajer, Chris Sorensen, and Yao Wang listen intently. You must have Skills, Heart, Ability, Purpose, and Experience to truly be a good leader.

Section President, Meg Moore, indicated more training classes will be scheduled in the future to provide opportunities for members to expand their professional abilities. The ISA Birmingham Section is dedicated to being a service to everyone in the automation, instrumentation, and controls field of practice.
Jimmy Key asks about the methods of gaining consensus in a meeting setting. The chair person must maintain control of the discussions.

ISA Birmingham Mission

The ISA Birmingham Section exists to advance automation, instrumentation, and controls technology, promote
professional development of members, and create a network of professionals to share and learn.

**ISA Birmingham Goals**

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

I. **Provide opportunities for members to develop their professional and leadership skills through a mentoring and teaching atmosphere.**

II. **Develop programs and provide training to disseminate technical information to personnel in the automation, instrumentation, and control field of practice.**

III. **Establish local and international opportunities for networking and information sharing with others in the automation, instrumentation, and control field.**

IV. **Promote automation, instrumentation, and controls as a valuable and important field of work for engineering students.**

V. **Create scholarship opportunities for students in the field of automation, instrumentation, and controls.**

VI. **Encourage automation, instrumentation, and controls professionals to share their experience across industry boundaries and promote innovative thinking.**

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**ISA Honors and Awards Announced**

The following is a list of the international Honors and Awards recipients as approved by the ISA Executive Board at their meeting in June 2019.

**Excellence in Leadership**

*Recognizes an individual who has made significant contributions to the industry and/or to advance automation.*

**Thomas Burke**  
OPC Foundation, Scottsdale, Arizona, USA
Excellence in Technical Innovation, Endowed by UOP, a Honeywell Company
Recognizes an individual who has played a critical role in the conception, design, and/or implementation of an innovative product, process, and/or service.

Jayesh Barve
GE Global Research Center, Bangalore, Karnataka, India

Excellence in Technical Presentation
Recognizes the author(s) of the most outstanding paper, article, presentation, or document published and/or presented on behalf of ISA that introduces a new technology or explains an existing automation process.

Brian Mast
Copper Bell Consulting LLC, Seattle, WA USA

Excellence in Education
Recognizes an individual who has developed and/or enhanced established educational programs to advance the automation profession in educational institutions.

Ravindra Thamma
Central Connecticut State University, New Britain, CT, USA

Mentoring Excellence
Recognizes a member who has, in the previous year excelled in mentoring students and/or young professionals in automation or student sections in advancing the mission of the Society.

Mary Cannon
Pentair Valves & Controls, Sugar Land, TX, USA

Excellence in Enduring Service
Recognizes dedicated volunteer service to the Society at the grassroots level. May be presented to multiple (up to five) honorees.

Luay Awami
Saudi Aramco, Qatif, Eastern, Saudi Arabia

Excellence in Society Service
Recognizes distinguished and dedicated volunteer service to the Society.

Jerry Clemons
ABB Process Analytics, Lewisburg, WV, USA

Division Excellence
Recognizes an ISA Division for development and/or execution of programs and/or services to advance the mission of the Society.

Analysis Division

Construction & Design Division

Water & Wastewater Industries Division (winner)
Division Leader Excellence
Recognizes an ISA Division leader for development and/or execution of programs and/or services to advance the mission of the Society.

Yogesh Balajee  
Automatic Controls and Robotics Division  
Puratos USA, Cherry Hill, NJ, USA

Section Excellence
Recognizes an ISA Section for development and/or execution of programs and/or services to advance the mission of the Society.

Calgary Section

Houston Section

Southern Alberta Institute of Technology Student Section (winner)

Section Leader Excellence
Recognizes an ISA Section leader for development and/or execution of programs and/or services to advance the mission of the Society.

Solomon Almadi
Saudi Arabia Section
Saudi Aramco, Dhahran, Saudi Arabia

Standards Excellence
Recognizes an ISA standards committee member for exceptional efforts in organization, development and/or administration to further the development of ISA standards and for services to advance the mission of the Society.

Ted Trost
Cargill, Hopkins, MN, USA

Volunteer Leader of the Year
Recognizes the volunteer who, in the previous year, has provided the most outstanding service to advance the mission of the Society unmatched by other leaders.

Don Dickinson
Phoenix Contact, Cary, NC, USA

Mark Your Calendar:
September 2019 - ISA Section Kick-Off meeting
Everyone is invited to attend the first meeting of the year on September 10, 2019 at Logan’s Roadhouse on Highway 280.
Social time at 5:30 pm and dinner at 6:00 pm. New members eat free and any member bringing a new member will have dinner on the section.

Discuss upcoming schedule for section meetings, events planned for the year, and networking opportunities.

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

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- Vice President: John Cover – BBP (cover.john5@gmail.com)
- Treasurer: Patrick Joseph – Southern Company Services (pvi Joseph@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)
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- Education Chair – Gerald Wilbanks – DES (gwillbankspe@charter.net)
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  Frank Flow – Flexim Inc. (fnflow@yahoo.com)
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  Kiumars Bahri – Southern Company Services (kbahri@aol.com)

Matt’s -

WORD FOR THE DAY:
‘Cogitate’
\verb|ˈkä-jə-,tāt| verb

1. To think deeply or intently; to ponder; to meditate.
2. To think about; to ponder on; to meditate upon; to plan or plot.

Technical Brain Teaser
A differential pressure transmitter LT-100 is used to monitor the level in a horizontal storage vessel V-100. The vessel holds hot water which is manually filled and drained by valves V-1 and V-2. The pressure taps on the vessel for LT-100 are 60 inches apart and the transmitter is mounted 10 inches below the bottom process tap. The transmitter's process tubing is routed 10 feet horizontally before dropping vertically to the transmitter.

The following data apply:

- Ambient temperature: 80°F (always)
- Normal Operating pressure: 100 psig (PIC-101)
- Normal operating temperature: 280°F (TIC-102)
- Seal fluid for reference leg of level transmitter:
  - Specific gravity = 0.8 at 60°F
  - = 0.62 at 80°F
  - = 0.32 at 280°F
- Boiling point = 520°F at 0 psig

The other leg of the level transmitter contains process fluid.

The span of the transmitter, in inches of water, is:

(A) 19.2
(B) 37.2
(C) 55.7
(D) 60.0
**Answer**

There are several errors that can be made and lead to an incorrect answer. Notice that the specific gravities given in the problem are for the fill fluid, not the hot water in the vessel. You must find the density of the water at 280 degrees Fahrenheit from a table for saturated water and steam.

The saturated steam/water tables indicate the specific volume for 280 degree water is .01726 cubic foot per pound. We need the density in pounds per cubic foot, which will allow us to calculate the specific gravity. Therefore, we have to invert the specific volume, which gives us 57.941 #/ft$^3$ as the specific weight (or a specific gravity value of .929).

The span of the transmitter may be calculated by multiplying the distance between the pressure taps (60 inches) by the specific gravity of the fluid being measured (.929). This gives an answer of 55.7 inches of water as the span.
Span = S.G. \times d

\text{S.G.} = \frac{\text{density of Process at Normal Temp} = 280^\circ\text{F}}{\text{water density at Standard Temp} = 60^\circ\text{F}}

\text{S.G.} = \frac{57.941\text{#/ft}^3}{62.364\text{#/ft}^3} = 0.929

\text{Span} = 0.929 \times 60\text{ in.} = 55.7\text{ in. H}_2\text{O}

The correct answer is (C).