

# **Savannah River Section of ISA**

## **Training Seminar**

# **Selecting, Sizing & Maintaining Control Valves**

**Date:** June 5, 2009  
**Location:** Augusta Technical College  
Room 606  
Albert G. Huntington Bldg.  
Augusta, GA  
**Time:** 8:00 AM – 4:00 PM  
**Cost:** \$35/members or \$70/Non-members  
(Lunch included)  
**Credits:** CEU's are available on request  
**Note:** **SPACE IS LIMITED, REGISTER EARLY!!!**

**Description:** This seminar is for individuals wanting a better understanding of Control Valves Selection, Sizing and Maintenance.

**The course objectives are as follows:**

**8:00am – 11:45 am**

- **Process Variability**
- **Introduction and fundamentals of Control Valves**
- **Choosing Right Valve Type for your Application  
(Butterfly, Ball, Globe)**
- **Additional Selection Criteria**
- **Actuators & Accessories-Spring & Diaphragm & Piston  
Actuators – Selection & Sizing Criteria**

- **Positioners- Conventional & Smart**
- **Other Accessories**
  - Solenoid Valves**
  - Position Switches**
  - Fail Safe Trip System etc.**

**12:45pm – 4:00 pm SIZING Instructions & practice**

- **Control Valve Sizing & Engineering**
- **Control Valve Sizing Overview**
  - **Liquid Applications (Cavitation/ Flashing)**
  - **Gas and Steam Applications(Aerodynamic Noise, Desuperheating)**
  - **Emerson-Fisher Valve Sizing Programs**
  - **Class Exercise 1**
  - **Class Exercise 2**
  - **Class Exercise 3**

**12:45pm – 4:00 pm Maintaining Control Valves**

- **Control Valve Maintenance**
  - **Changing seat**
  - **Changing Size for same body**
  - **Exercise**

**And finally, design considerations for the selection, installation and maintenance from the overall control system perspective and economics.**

**Please bring your USB Flash memory/ laptop. This is hands on learning experience for Engineers & Maintenance Personnel.**

## **Instructors:**

### **George Chang**

MSME – Clemson University, 1972

Current Employer – R E Mason Company (Local Business Partner for Emerson Process Management / Fisher Controls)

Position – V. P., Applications Engineering

### **Mark Haney –**

BSME – University of South Carolina, 1995

Current Employer – R E Mason Company (Local Business Partner for Emerson Process Management / Fisher Controls)

Position – Manager, FCS Projects Group

### **Dan Fisher –**

Started career at R E Mason Co. in 2001

Prior Experience - Field Service Manager, IVS-Memphis, TN; Senior Service Technician, IVS-Columbia

Current Employer – R E Mason Company (Local Business Partner for Emerson Process Management / Fisher Controls)

Position – Asset Manager and Senior Field Service Engineer

### **Brad Emry –**

BS Ch.E. – University of Nebraska

Prior Experience - Applications Engineering Manager- Fisher Controls

Current Employer – R E Mason Company (Local Business Partner for Emerson Process Management / Fisher Controls)

Position – Account Manager

**The seminar is being presented by the Emerson Process Management Education Services group. They will not be "selling" Emerson, but will bring some of their equipment / hardware to effectively demo the type of valves, actuators etc. The goal is to supplement the technical knowledge.**

For more information call:

Madanjit Singh@ 803- 208-6308

[isaga@gabn.net](mailto:isaga@gabn.net)

# Registration form

June 5, 2009

Savannah River Section of ISA training course:  
Control Valve – Selection, Sizing & Maintenance

Room 606

Albert G. Huntington Bldg

Augusta Technical College

Augusta, Ga.

Course starts at 8:00 AM

Name: \_\_\_\_\_ Position/Title: \_\_\_\_\_

Company: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Member Cost: \$35\* (\$25 for half day w/o lunch)

My ISA member number is: \_\_\_\_\_

Non Member Cost: \$70\*

(Are you interested in becoming a member of ISA: Yes / No- if yes we will save you money)

\* Morning Coffee & donuts & Lunch Included

Registration Deadline: June 3, 2009

(First 20 Spaces w/ computers for sizing calculations- space is limited, register early)

Pay by Paypal or make check payable to the Savannah River Section of ISA & send email at [isaga@gabn.net](mailto:isaga@gabn.net)

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