

# AIChE Baton Rouge Spring Seminar

## Plant Air Systems, Project Management, Fertilizer Plant Explosion, Process Safety Controls Perspective

Friday, May 6, 2016  
8:00AM – 4:00PM

Location: Holiday Inn South  
9940 Airline Hwy Baton Rouge, Louisiana 70816, (225) 924-7021

**Earn 7 PDH's! Enrollment is Limited! Sign-Up Early!**

### REGISTRATION FORM

**NEW!** Register online at [www.aiche-br.org](http://www.aiche-br.org), or mail this completed form with payment to the address below.

NAME: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

COMPANY: \_\_\_\_\_

EMAIL: \_\_\_\_\_ PHONE: \_\_\_\_\_

TECHNICAL/PROFESSIONAL SOCIETY MEMBERSHIP\*: \_\_\_\_\_ (must indicate)

**COST:** ☐ \$75/person for Tech/Prof Society Members\* prior to 02-May-16  
(Please check appropriate box) ☐ \$95/person for non-Tech/Prof Society Members prior to 02-May-16  
☐ \$110/person for all after 02-May-16

#### **MAIL COMPLETED REGISTRATION FORM TO:**

(Please include check if that is your payment option)

Must be RECEIVED by 02-May-16

Walk-ins welcome space permitting.

Check or cash only, no credit cards on event day

Oscar Alfaro (Treasurer)

1124 W Lakeview Dr.

Baton Rouge, LA 70810

Email: [Oscar.Alfaro@Jacobs.com](mailto:Oscar.Alfaro@Jacobs.com)

Phone: (818) 642-8003

\*The AIChE supports membership in Professional and Technical Societies (see list below)

Refund Policy: Advance registration is 100% refundable with notice at least 12 days prior to the date of the seminar. Notice received between 02-May-16 and 05-May-16 is 50% refundable. No refunds on day of the seminar.

Cancellation: AIChE reserves the right to cancel this seminar if low attendance is projected. A full refund will be sent in this event.

## Baton Rouge Section May 6, 2016 Seminar

7:00 AM – 8:00 AM: REGISTRATION & BREAKFAST

8:00 AM – 10:00 AM: MORNING SESSION

### **Plant & Instrument Air Design Considerations**

Mike Austin (Atlas Copco)

#### Introduction of topics

- Review of Plant and Instrument Air System
- What is Instrument air?
- Overview of system configuration(s)

#### Selecting the correct Compressor Technology

- Piston
- Oil Injected Screw
- Oil Free Screw
- Centrifugal

#### Air Dryer Technology-Which is appropriate?

- Heatless
- Externally Heated
- Blower Purge
- Heat of Compression

#### Other Considerations

- Cooling-Air Cooled or Water Cooled
- Power-Low Voltage, Medium voltage, diesel
- Area Classifications

#### System Energy Savings

#### Question and Answer

#### About the presenter:

**Mike Austin** is Sales Manager for Oil Free and Engineered Products – Atlas Copco Compressors LLC. He has a BS in Chemistry degree from LSU. Mike has extensive experience in Compressed Air System design. This includes Maintenance and Reliability of Piston, Rotary Screw, Rotary Lobe, and Centrifugal Compressors. He serves on the API-672 Advisory Committee. Mike also serves as a Moderator on the GSRMS Advisory Committee. He holds a CAC Level II. Overall Mike has 45-years experience in the Process Equipment Industry.

## **10:00 AM – 12:00 AM: MORNING SESSION**

### **The Project Management Institute (PMI) Approach to Project Management**

**Charles Durr (PMP, Six Sigma Black Belt, CMII, CMIS)**

The presentation will cover the PMI approach to Project Management. The method is based on a combination of 5 Process Groups and 10 Knowledge Areas. As the Scope Planning process is reviewed, the importance of a detailed Work Breakdown Structure (WBS) is highlighted. Overall management includes how the WBS impacts Planning, the Execution Processes, the Monitoring and the Control Processes.

#### About the presenter:

**Charles Durr** has over 40-years of Information Technology experience. This includes 15-years in Software Development, 14-years in Data Center Management, and 10-years of IT Project Consulting. Major Project management experience includes

- Building and staffing three new data centers
- Implementing two Mobil Data Department of Justice COPS MORE Grants including seven law enforcement agencies valued at \$3.2 MM
- Installation & implementation of five site Homeland Security Presidential Directive 12 Physical Access control at the Strategic Petroleum Reserves.

Charles is currently associated with Global PM in Slidell as a PMP (Project Management Professional) Certification Prep instructor. He is also a Microsoft Project instructor/consultant. Charles previously served 3-years on the PMI New Orleans Chapter Board of Directors. He is a Graduate of the University of Louisiana Lafayette.

## **12:00 PM – 1:00 PM: LUNCH**

## **1:00 PM – 3:00 PM: AFTERNOON SESSION**

### **Lessons Learned from West Texas Fertilizer Plant Explosion**

**Manny Ehrlich (U.S. Chemical Safety and Hazards Investigation Board)**

On April 17, 2013 a horrifically devastating explosion took place in the West Fertilizer Company facility in West Texas. Fifteen lives were lost and in excess of 250 people injured. Property loss will be in excess of \$100 million dollars.

This presentation will examine the findings of the CSB's investigation in to the incident. The primary focus being on the lessons learned and the recommendations moving forward. Special emphasis to be placed what you can do in your communities and areas of responsibility to assure that there is never a similar accident on your watch.

#### About the presenter:

**Manny Ehrlich**, was nominated by President Barack Obama to the U.S. Chemical Safety and Hazard Investigation Board in January of 2014 and confirmed by the Senate in December 2014. Prior to his appointment Mr. Ehrlich spent over 50 years in the chemical industry in a variety of positions. Most recently he served as a health, safety and environmental consultant to a broad range of companies across the country.

Mr. Ehrlich spent much of his career with BASF Corporation, one of the largest chemical companies in the world. During his time at BASF Mr. Ehrlich worked in a variety of roles, including plant management and eventually leading emergency response efforts across North America. In this capacity he responded to, managed and investigated numerous hazardous materials incidents in the U.S., Canada and Mexico.

Mr. Ehrlich served as the on call chemist for the Chemical Transportation Emergency Response Center (also known as CHEMTREC) in the U.S., a 24-hour service that assists responders on the scene of chemical incidents. He also served as a member of the National Fire Protection Association's committee that develops competency standards for chemical emergency responders.

Mr. Ehrlich has a B.S. in Chemistry from Drexel Institute of Technology, completed graduate studies in chemistry from Temple University and St. Joseph's College, completed graduate studies in chemical engineering from New York University and received an Ed.M. and M.A. in Counseling Psychology for Business and Industry from Columbia University.

### **3:00 PM – 4:00 PM: AFTERNOON SESSION**

#### **Process Safety Management from a Controls Perspective**

Karen D. Morton, P.E., FSEng (**Hargroove Controls & Automation**)

Process safety management (PSM) has become an important factor in the design and operations of facilities that use potentially explosive and poisonous chemicals. In the U.S., certain processes are covered under the OSHA PSM regulation and implementation incorporates technical standards from multiple engineering disciplines including mechanical and instrumentation. This overview presentation includes the following topics:

- Process Safety Management Technical Standards and Regulations
- Process Controls and Safety Concepts
- Risk Reduction Methods and Layers of Protection
- Safety Instrumented Systems Overview

#### About the presenter:

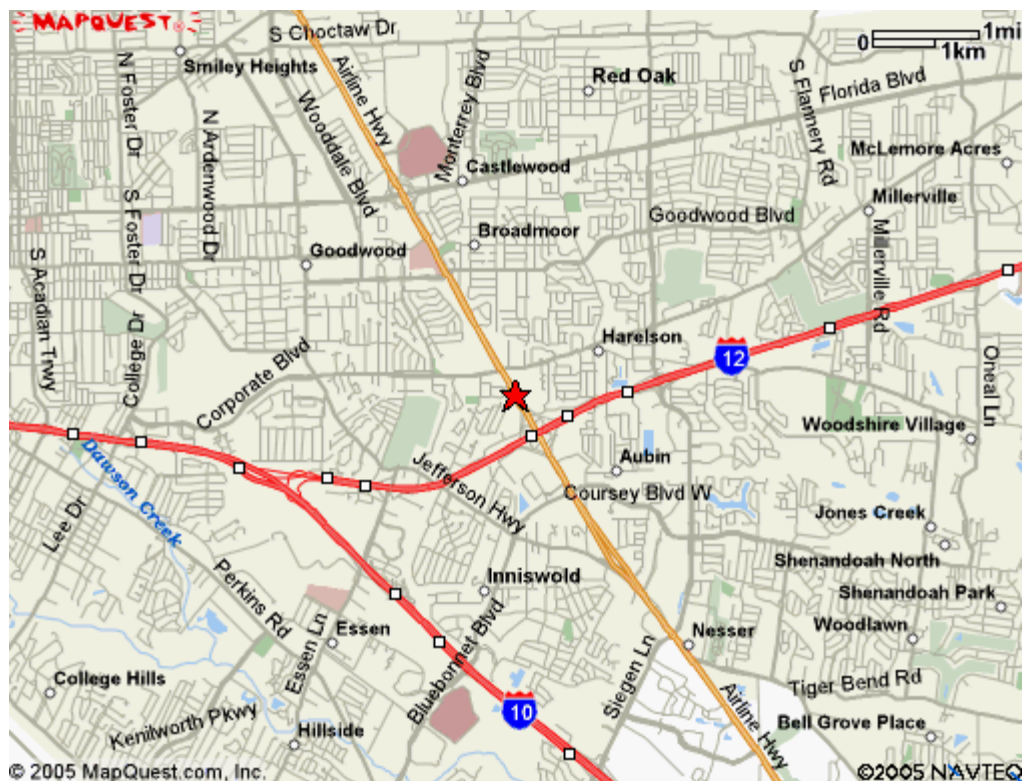
**Karen Morton** has worked as an engineer with process safety and control systems projects in South Louisiana's petrochemical industry since 1995. She is a licensed professional engineer in Louisiana, Texas, New Jersey and Alabama. She also has functional safety engineering certification from TÜV Rheinland. Karen works at Hargroove Controls + Automation in Baton Rouge as a C+A SIS Technical Consultant, where she concentrates on process safety management related projects. Karen co-authored the reference guide *Applied Mathematics for Safety Engineers* (published by the American Society of Safety Engineers). She and her husband, retired control systems engineer Walter M. Scott, III, are volunteer instructors for Baton Rouge's Cajun Clickers Computer Club. They were co-hosts on WJBO's "Cajun Clickers Computer Show" from 2002 - 2008. Her many hobbies include running, photography, jewelry making, writing and science fiction.

**Note: Due to travel, sickness or unforeseen events - some topics may change without prior notice.**

**Notice: Full day registration only. Registration fees will not be reduced for half day attendance. Attendance signatures will be required at the beginning of each presentation. PDH (Professional Development Hour) certificates will be issued based upon attendance list signatures, with Hours reflecting actual attendance. Fees will not be reduced or partially refunded for partial attendance.**

**\*\*\*Morning and Afternoon Sessions each to include two or three 10 min. breaks (not shown) \*\*\***

**(Map to Holiday Inn South (9940 Airline Hwy, Baton Rouge, LA 70816)**



## Local Professional Societies

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- Louisiana Engineering Society (LES)
- Louisiana Society of Professional Surveyors (LSPS)

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## National Technical Societies

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- America Academy of Environmental Engineers (AAEE)
- American Institute of Architects (AIA)
- American Institute of Chemical Engineers (AIChE)
- American Institute of Electrical Engineers (AIEE)
- American Consulting Engineers Council (ACEC)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American Management Association
- American Iron and Steel Institute
- American Society of Mechanical Engineers (ASME)
- American Plywood Association (APA)
- American Society of Civil Engineers (ASCE)
- American Society of Engineering Education (ASEE)
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
- American Society of Safety Engineers (ASSE)
- American Wood Council (AWC)
- Earthquake Engineering Research Institute (EERI)
- Institute of Transportation Engineers
- Institute of Electrical and Electronics Engineers (IEEE)
- Instrumentation Systems and Automation Society (ISA)
- National Council of Examiners for Engineering and Surveying
- National Design Specification (NDS)
- National Society of Architectural Engineers
- National Society of Professional Engineers (NSPE)
- Society of Petroleum Engineers (SPE)
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Professional Well Log Analysts (SPWLA)
- Society of Women Engineers (SWE)
- Air & Waste Management Association (AWMA)