

December 20, 2013



CCAMS Newsletter

CCAMS Measurement School Online Registration Open

The **Corpus Christi Area Measurement Society** has opened online registration for our school to be held on **February 11th and 12th 2014** at the **Omni Bayfront** hotel here in Corpus Christi.



The link for the student registration is on our website at: www.ccams.info

The school will have over 70 hours of lecture and hands-on classes during the two day school. The CCAMS school committee seeks out the best instructors in the country to provide quality classes for our students.



The school has moved to a new hotel which should give us more room, and better accommodations than we had at the previous site. The school has grown so much in the last few years with the Eagle Ford oil activity that we were forced to move to a larger venue.



The student registration fee is **\$125** up until February 1st. There will be a **\$25 late fee** for students registering after **February 1st**.

The school will also provide an exhibit area where approximately 70 vendor companies can show the students the latest equipment available to help them in their quest for accurate measurement.

If you have questions about registration please call **Diana Cantu** at **361-882-3444** or email at:

sales@measurementresources.com

Exhibitor Registration Available

The exhibitor online registration is also available for companies to register for booth space at the school.

Since we are limited to the number of booths available and we have had a waiting list in the past, we are restricting exhibitors to companies that are involved in hydrocarbon measurement. There will be approximately 70 booth spaces available this year.

Bill Stahl and **Lisa James** are handling the exhibitor requests and organizing the exhibits at the hotel.

If your company is interested in exhibiting at the school, please contact **Bill** or **Lisa** to request a booth for the school.

bstahl@rbisolutions.com

281-208-8898

lisa.james@c-a-m.com

281-782-2130



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Measurement School Schedule

Below is our tentative schedule for the school.

Tuesday February 11th

Registration opens 8:00 AM

Classes Begin 10:00 AM

Lunch Break 12:00-1:30

Class end 5:00 PM

Wednesday February 12th

Registration opens 7:30 AM

Classes Begin 8:00 AM

Lunch Break 11:30-1:00

Classes End 3:00 PM

Website Up and Running

The website is at: www.ccams.info

You can also find us on **Facebook** at:

<https://www.facebook.com/pages/Corpus-Christi-Area-Measurement-Society/275846715866561>

Omni Hotel Reservations

Hotel rooms can be reserved at the Omni Bayfront Hotel by calling:

1-800-THE-OMNI

The hotel rate at the Omni is \$129 per night and includes free parking. There is a restaurant at the hotel but breakfast is not included.

Reservations must be made by January 10th to receive the preferred rate.

The event name is:

CCAMS Measurement School.

You can also make your reservations online and enter the following group code.

Group Code: 14500812626

www.omnihotels.com

The Omni is located at 900 N. Shoreline Blvd. Corpus Christi TX 78401

Local phone number is: **361-877-1600**

There are many other hotels in the area all offering different rates and amenities.

If staying off-site, parking is available at the hotel in the covered garage and adjacent to the hotel. Larger trucks will need to park across the street



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Other Items of Interest

Lunch at the School

Lunches will be available to attendees who pre-purchase their meals on the online registration. Unfortunately we have limited availability for lunches due to our using many of the larger spaces for classrooms.

We will not have a speaker or presentation either day so that anyone electing to go out to one of the local restaurants won't miss out on anything important.

We'll have room for over 150 people for lunch, while the rest will have to eat at the hotel restaurant or one of the other restaurants in the area.

You can choose to purchase lunch with your student registration until we fill up. If the lunch selection is not available then you are on your own.

We will have chicken fried steak on Tuesday and meatloaf on Wednesday. They do have good food at this restaurant.

CCAMS Officers

Jim Lee (Koch Pipeline) –President

Chris French (TechStar) - Vice-President

Diana Cantu (Measurement Resources)- Secretary/Treasurer

CCAMS Board Members

Jim Klentzman (Welker Engineering)

Randy Woodall (Legacy Measurement Solutions)

Sandra Mooney (Coastal Flow)

John Martin (Southcross Energy)

Tommy Watson (Flint Hills Resources)

Clay Hammond (Measurement Resources)

Lisa James-(Cameron)

Matt Downs-(ReadyFlow)

Nearly all of the officers and board members of the CCAMS have been with the society for many years. John Martin, Sandra Mooney and Randy Woodall have been involved for more than 20 years. Jim Lee, Jim Klentzman and Chris French for 15 years.

The officers and board members understand there is a need for hydrocarbon measurement knowledge in our area and work hard to provide this area with a quality school.

We hope you take the opportunity to attend our little school this February.

**Have a Merry Christmas
and Happy New Year from
the CCAMS**



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Confirmed Classes for 2014

Gas

Fundamentals of Gas Chromatography
Basic Natural Gas Orifice Measurement
Fundamentals of Natural Gas Quality
Natural Gas Flow Meters. Why Calibrate?
Level Controls and Valves, and Their Effect on Measurement
Lost and Unaccounted for Gas
Verifying Gas Sales Measurement
Orifice Meter Field Testing and Calibration
Electrical Circuitry and Installation on Effects on Measurement
Barton Pressure and Temperature Recorders
Best Practices-Natural Gas Manifolds
Installation and Operational Errors in Gas Measurement
Production Equipment Effects on Orifice Measurement
Flare Measurement Practices
Using a GC to Predict 2 Phase Gas Flow
Understanding Gas Ultrasonic Diagnostics
Response of Orifice Meters to Wet Gas Flow

Hands-On/Demonstration

Fisher Flow Boss Flow Computers
Omni Flow Computers
Certifying Measurement Test Equipment
Totalflow Flow Computers
Installation and Configuration of Micro Motion Coriolis Meters
Effective Use of Deadweight Testers
Siemens Clamp-On Ultrasonic Meters
Turbine Meters/Totalizers for Oil and Gas Production

Liquid

Fundamentals of Liquid Measurement
Liquid Metering Station Design
Flow Computers for Liquid Measurement
Custody Transfer Meters for Liquid Measurement
Proving Liquid Coriolis Meters
Turbine Meters in Liquid Measurement
Coriolis meters for Liquid Hydrocarbon Measurement
Proper Design of Crude Oil LACT Units
Calculation of Liquid Petroleum Quantities
Liquid Pipeline Leak Detection
Coriolis Advanced Diagnostics
Metering Truck and Railcar Unloading
NGL Measurement Direct and Inferred Mass
Troubleshooting Liquid Measurement Problems
Vapor Pressure of Petroleum Products
Meter Proving-The Role of the Witness
Gas Entrained Liquids in Coriolis Meter
Composite and Spot Sampling of Non-Stabilized Crude
Field Experience with Liquid Coriolis Meters
Tank Gauging Versus Inline Metering

Other

Wireless Technology for the Oilfield
SCADA Systems for Remote Locations
Fundamental Well site Automation
Modbus for Dummies
Guided Wave Radar Gauges