In conjunction of

SOGCE
SABAH OIL, GAS & ENERGY CONFERENCE & EXHIBITION

Organised by

MEM
MIDAS EVENTS MANAGEMENT

In partnership with

SEMARAK training

SOGCE Masterclass: Metering & Allocation

6 – 9 June 2023 • Sabah International Convention Centre, Kota Kinabalu, Sabah

Introduction

Measurements are vital in any activity requiring quantification. It is necessary to the successful operation of production systems to have an understanding of industrial processes, as well as the ability to monitor and control flow rate within those processes.

Liquids or gases will normally be monitored using flow metering at numerous stages along their path from production to consumption for the purposes of both financial and operational control. These measurements are necessary. Because it serves as either a cash register for your company or a means for charging customers, the flowmeter must provide reliable readings.

Even though the user has access to a variety of approaches, it is a well-known truth that a device that is inaccurate (or a device that displays a measurement that is less precise) can cost either the buyer or the seller millions of dollars as a result of reading inconsistencies.

This masterclass aims to provide important understanding on metering & allocation through 4 unique courses to help professionals to carry out jobs with superior capability and confidence that lead to positive business performance. Learning stage and need of each professional might be different, thus this programme is designed to give flexibility where delegate is able to choose to attend single course, combination of courses or complete masterclass (4-in-1).

This masterclass is organised by MIDAS Events Management in partnership with Semarak Training in conjunction of Sabah Oil, Gas & Energy Conference & Exhibition (SOGCE) 2023. The courses are HRD Corp claimable.

4 Courses in 1 Masterclass

1. Fundamentals of Flow Measurement
2. Advanced Multiphase Flow Measurement
3. Introduction to Custody Transfer Measurement
4. Introduction to Hydrocarbon Allocation

Course Methodology

- Workshop style
- Lectures
- Group activities
- Case studies
- Q&A

Who Should Attend?

Anyone who is new to flow measurement both in a technical and non-technical capacity including technicians, engineers, salespeople, administrators and managers. Each course is intensive but will make an effective use of delegates' time.

Participated by:

Shell · ExxonMobil · enQuest · JX Nippon Oil & Gas Exploration · Petrofac · sapura energy · OMV · Hibiscus Petroleum · KROHNE EMAS · PETRON

1. FUNDAMENTALS OF FLOW MEASUREMENT (1 DAY)

Flow measurement is vital to many industrial sectors: water supply, oil extraction, gas distribution, and much of the process and pharmaceutical industry depend on flow measurement for quality control and custody transfer. To obtain the required level of accuracy at an appropriate price, it is crucial that the right meter is selected for the application and that it is appropriately used. However, the flow meter user is faced with a bewildering array of technologies and conflicting claims from manufacturers.

Objective

This course enables delegates to understand the issues surrounding flow measurement. It also provides the delegate with an unbiased view of the various technologies available and the basic knowledge required to make informed choices. Key aspects of flow measurement, all general meter types and their applications will be discussed and explained.

Who Should Attend?

Anyone who is new to flow measurement both in a technical and non-technical capacity including technicians, engineers, sales people, administrators and managers. The course is intensive but will make an effective use of delegates' time.

Course Outline

- Basic of Fluid Flow
- Traditional Flow Measurement Technology
- Modern Flow Measurement Technology
- Multiphase Flow Metering
- Measurement Uncertainty
- Meter Management
- Network Management

2. ADVANCED MULTIPHASE FLOW MEASUREMENT (1 DAY)

This course will discuss the challenge associated with oil, water and gas commingled together. This course is focusing on the latest product developed over the last 25 years to address the multiphase flow as presented in the oil and gas industry. This will explain the challenges that oil and gas operators are facing and how this is approached with different technologies on the market today.

This course will address the benefit versus the test separator, the course will also address the subsea business and the fluid properties which are on the critical path for high level of quality measurement.

Objective

This course enables delegates to understand the issues surrounding multiphase and wet gas flow measurement. It also provides the delegate with an unbiased view of the various technologies available and the basic knowledge required to make informed choices. Key aspects of flow measurement, all general meter types and their applications will be discussed and explained. The course will review how to identify the true performance of a MPFM or WGFM.

Who Should Attend?

Anyone who is dealing with flow measurement both in a technical and non-technical capacity including technicians, engineers, sales people, administrators and managers. The course is intensive but will make an effective use of delegates' time.

Course Outline

- Introduction to Multiphase Flow Measurement
- Importance and Functions of Multiphase Flowmeter
- Basic Technology Principles of Multiphase
- Main MPFM an WGFM on the Market
- Strength and weaknesses
- Multiphase Flow Metering
- Wet Gas Flow Metering
- Measurement Uncertainty

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3. INTRODUCTION TO CUSTODY TRANSFER MEASUREMENT (1 DAY)

A transaction involving physical transfer of oil and gas from one operator to another is known as Custody Transfer. Accurate metering of the fluids being transferred between the two is therefore of vital importance. This one-day training course will enable metering engineers to gain a knowledge of how fluids are metered in the oil and gas sector.

Objective

- Understand the requirement for Custody Transfer Measurement.
- Basic sizing techniques.
- Select the optimum meter type.
- Appreciate the various standards and regulations applied.

Who Should Attend?

Anyone who is new to flow measurement both in a technical and non-technical capacity including technicians, engineers, salespeople, administrators and managers. The course is intensive but will make an effective use of delegates' time.

Course Outline

- Introduction and Overview
- Flow Meters
- Meter Provers
- Density Measurement
- Crude Oil Sampling
- Secondary Instrumentation
- Flow Computers

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4. INTRODUCTION TO HYDROCARBON ALLOCATION (1 DAY)

In Oil and Gas production environments, it is often necessary for operating companies to share production and transportation facilities. It is therefore important that the hydrocarbons entering such facilities are equitably allocated between the companies contributing to the system. The process of dividing the produced hydro- carbons, ensuring that each operator gets their allotted share is known as hydrocarbon allocation. This one-day course is designed to describe the development of an allocation system and explain the different types of allocation calculations that are commonly applied.

Objective

The course will cover:

- What is Hydrocarbon Allocation?
- Design and development of an allocation system
- Functions of an allocation system
- Proportional allocation
- Mass Allocation
- Uncertainty based allocation by difference allocation

These modules will be complemented by a series of examples and case studies to illustrate the concepts being covered.

Who Should Attend?

- Allocation Engineers
- Instrument engineers
- Production engineers
- Technical managers
- Quality managers

Course Outline

- What is Hydrocarbon Allocation?
- Design and development of an allocation system
- Functions of an allocation system
- Proportional allocation
- Mass Allocation
- Uncertainty based allocation
- By difference allocation

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About Expert Trainer

Dr. Bruno G. Pinguet

Dr. Bruno Pinguet is the Technical Director of Metering & Allocation at Semarak Training. Formerly, he was the International Marketing & Scientific Advisor at TÜV SÜD National Engineering Laboratory (Scotland) and based in Southeast Asia (Malaysia). Bruno has over 30 years' experience in single and multiphase flow measurements from downhole to surface applications, including subsea environment. He is recognized as one of the foremost leaders in the worldwide multiphase business thru knowledge sharing, presentations, books, publications, and technical advice. He was "Visiting Professor" of Coventry University.

His main domains of expertise include multiphase, wet gas flow metering, sampling, fluid properties, allocation, tieback, uncertainty measurements. He is lately focusing on gas emission businesses.

Before, he was "Marketing & Technical Manager", supporting the global multiphase business and reporting to Schlumberger Testing Headquarter - Paris (France). He was tasked with the global technical and business support of the flow metering technologies applications (with a focus on unconventional oil or specific applications such as 4 phases, sand production, shale business), including new business development role for subsea and topside applications. He was recognized worldwide technically at the level of "Scientific Advisor" and involved in the new product development phases with different engineering centres.

Bruno has been a service company representative in multiple committees and he is part of other technical committees for multiphase conferences and European Projects, including standard committees such as API.

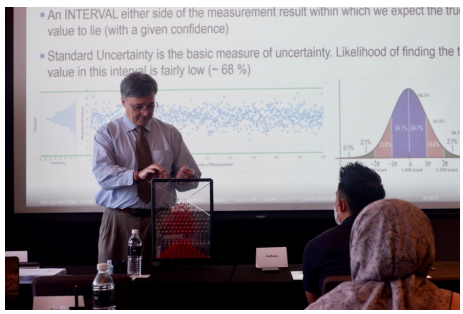
He has a "Doctor of Philosophy in multiphase flows" and more than 175 publications and articles. He has several patents in the multiphase environment, from optical and fluid properties measurements to sampling and nuclear techniques of measurements and numerous awards.

Testimonials from Past Delegates

"This course able to enhance the basic & improve understanding in metering.
I like how the info is linked to the earlier sessions from Day 1 & 4."
Hydrocarbon Allocation Engineer, Sarawak Shell Berhad

"Trainer has good knowledge & able to deliver the course in most efficient way."
Senior Production Planning Engineer, JX Nippon Oil & Gas Exploration (Malaysia) Limited

"I appreciate active engagement between trainer & participant during the course.
Plus, how the parameters are being explained and make the flow easy to understand."
Measurement Engineer, ExxonMobil Exploration & Production Malaysia Inc



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Registration Form

MIDAS EVENTS MANAGEMENT

SEMARAK training

SOGCE Masterclass: Metering & Allocation

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Register	Course	Date	Standard Price	Team Price (min. 3 pax)
❑	**Fundamentals of Flow Measurement**	6 June 2023	MYR 3,900 / pax	MYR 3,600 / pax
❑	**Advanced Multiphase Flow Measurement**	7 June 2023	MYR 3,900 / pax	MYR 3,600 / pax
❑	**Custody Transfer Measurement**	8 June 2023	MYR 3,900 / pax	MYR 3,600 / pax
❑	**Introduction to Hydrocarbon Allocation**	9 June 2023	MYR 3,900 / pax	MYR 3,600 / pax
Bundle Registration Discount: 2 courses – 5% off, 3 courses – 7% off, 4 courses – 10% off				

Delegate Details

Name: _____

Job Title: _____

Email: _____

Contact No.: _____

Name: _____

Job Title: _____

Email: _____

Contact No.: _____

Name: _____

Job Title: _____

Email: _____

Contact No.: _____

Company Details

Company: _____

Address: _____

Telephone: _____

Fax: _____

Send Invoice To

Attention Invoice To: _____

Email: _____

Contact No: _____

- To register, kindly complete this registration form and return to sarah.shaharuzzaman@semaraksolutions.com by **19 May 2023**

Registration Terms & Conditions

Payment Method

☐ Cheque made payable to Semarak Solutions Sdn. Bhd.
☐ Claim from **HRD Corp** (with 30% Upfront Payment)
☐ Direct Transfer

Transfer to : Semarak Solutions Sdn. Bhd.
Bank : Malayan Banking Berhad (Maybank)
Account No. : 564810532861
Swift Code : MBBEMYKL

*All bank charges to be borned by payer. Please ensure that Semarak Solutions Sdn. Bhd. receives the full invoiced amount.

Payment Policy

Payment is due in full at the time of registration. Full payment is mandatory for event attendance. By submitting this registration form, you have agreed to Semarak Solutions Sdn. Bhd.'s payment terms.

Cancellation and Substitution

You may substitute delegates at any time.

For cancellations received in writing more than seven (7) days prior to the training course, delegates will receive a 100% credit on the amount paid which can be used in another Semarak Solutions Sdn. Bhd. training course for up to one year from the date of issuance. The credit is transferable to other persons in the same company and applicable against any future Semarak Solutions Sdn. Bhd. public course.

For cancellations received seven (7) days or less prior to an event (including day 7), no credit will be issued. In addition, a cancellation fee equivalent to 15% of the course fee will be charged.

In the event that Semarak Solutions Sdn. Bhd. postpones or cancels a course, delegate payments at the date of cancellation or postponement will be credited to a future Semarak Solutions Sdn. Bhd. course. This credit will be available for up to one year from the date of issuance, and it is transferable to other persons in the same company and applicable against any future Semarak Solutions Sdn. Bhd. public course.

We shall assume no liability whatsoever in the event this training course is cancelled, rescheduled or postponed.

Semarak Solutions Sdn. Bhd. does not provide refunds for cancellations and postponements or waive fees for unpaid invoices upon receipt of registration.

Program Change Policy

Please note that speakers and topics were confirmed at the time of publishing; however, circumstances beyond the control of the organizers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, Semarak Solutions Sdn. Bhd. reserves the right to alter or modify the advertised speakers and/or topics if necessary. Any substitutions or alterations will be updated on our web page as soon as possible.

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