

# REGISTRATION FORM

## Deep Well Challenges

16–18 November 2009 | JW Marriott Hotel | Cairo, Egypt

**Important: Attendance is limited and is not guaranteed.  
Early registration is recommended. Please print or type in black ink.**

First Name \_\_\_\_\_ Middle Name \_\_\_\_\_

Last/Family Name \_\_\_\_\_ SPE Member?  Yes  No

Member No. \_\_\_\_\_ Job Title \_\_\_\_\_

Company/Organisation \_\_\_\_\_

Street or P.O. Box Number \_\_\_\_\_ City \_\_\_\_\_

State/Province \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Telephone \_\_\_\_\_ Facsimile \_\_\_\_\_

Email (required) \_\_\_\_\_

### 1 Day Training Course Deep Drilling Design Concepts by Abdel-Sattar Dahab on 16 November 2009

International (Egyptian Nationals and Non-Egyptian Nationals based outside Egypt)

USD 450 for SPE Members  USD 550 for Nonmembers

### 2 Days workshop (Excluding the Training Course):

National (Egyptian Nationals based in Egypt)

EGP 3,000 for SPE Members  EGP 3,300 for Nonmembers

International (Egyptian Nationals and Non-Egyptian Nationals based outside Egypt)

USD 1,100 for SPE Members  USD 1,200 for Nonmembers

### 3 Days workshop (Including the Training Course):

National (Egyptian Nationals based in Egypt)

EGP 3,600 for SPE Members  EGP 3,900 for Nonmembers

International (Egyptian Nationals and Non-Egyptian Nationals based outside Egypt)

USD 1,450 for SPE Members  USD 1,550 for Nonmembers

**Credit Card** (Check One):  American Express  MasterCard  Visa

**NO REFUNDS will be granted on cancellations after 9 November 2009.**

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**Card Number** (will be billed through Society of Petroleum Engineers)

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**Expiration Date** (mm/yy)

Name of Credit Card Holder: (printed) \_\_\_\_\_

Signature: (required) \_\_\_\_\_ Date: \_\_\_\_\_

#### Payment by Bank Transfer:

IMPORTANT - Please Quote "09AALE" and Name of Delegate

Make Payment to:

HSBC Bank Middle East, Jebel Ali Branch, PO Box 66, Dubai, UAE

Account Name: SPE Middle East FZ-LLC

Account Number: 035-129709-100

Swift Code: BBMEAAD

#### Cancellation and Refund Policy:

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline 16 October 2009.
- For cancellations received after the registration deadline, 16 October 2009, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 9 November 2009.
- No refund will be issued if a registrant fails to attend the workshop.

To submit your registration online, please visit the event's website at: [www.spe.org/events/09aale](http://www.spe.org/events/09aale).  
Alternatively, you can email this form to: [formsdubai@spe.org](mailto:formsdubai@spe.org), or fax it to: +971.4.366.4648.

09AALE



Society of Petroleum Engineers

16–18 November 2009 | JW Marriott Hotel | Cairo, Egypt

Register by 16 October 2009

# WORKSHOP

## SPE Applied Technology Workshop:

# Deep Well Challenges

### SPE Training Course:

# Deep Drilling Design Concepts



Society of Petroleum Engineers

16–18 November 2009 | JW Marriott Hotel | Cairo, Egypt

## SPE Applied Technology Workshop

# Deep Well Challenges



Register by 16 October 2009

#### Who Should Attend?

The intended audience of this workshop are drilling and completion engineers, geologists, petrophysicists, rig operators, drilling team leaders and management.

#### Committee Members

**Chairperson**  
Mohamed Said Salama  
PDC

**Cochairperson**  
Osama El-Bakly  
Khalda Petroleum Company

**Advisor**  
Mamdouh Mahfouz  
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Petrobel

**Ibrahim Tantawi**  
Hellenic Petroleum S.A.

**Mohamed El Bassyouny**  
Petro SA

#### Workshop Abstract

Deep wells are classified as a main challenge to drilling engineers. Most deeper prospects comprise several difficulties and unanticipated conditions that necessitate particular expertise to handle each situation. The same well may include high pressure and high temperature (HPHT), different pressure profiles, hard drilling formation and borehole stability. To professionally manage such circumstances we have to deploy carefully innovative ideas, appropriate skills, proper well planning and special material.

This ATW will gather drilling experts from different companies to discuss their problems and how they were handled. These will be addressed through case studies, lessons learned and four technical sessions covering benchmarking between comparable wells, new technologies and applications, economics and cost saving strategies and many other topics that will help companies drill better wells. All attendees are encouraged to participate in the interactive sessions and share their expertise knowledge and proficiency.

#### About the Venue

JW Marriott Hotel, a luxurious 5-star corporate resort is nestled in the prestigious Heliopolis district just 7 minutes away from the airport and close to many attractions.

**Group Discounts!**  
2–3 delegates receive 15% discount  
4–5 delegates receive 20% discount  
Over 5 delegates receive 25% discount  
For more information on how to register email:  
[krajwani@spe.org](mailto:krajwani@spe.org)

[www.spe.org/events/09aale](http://www.spe.org/events/09aale)

# WORKSHOP

### Sponsorship Support

Sponsorship support helps offset the cost of producing workshops and allows SPE to keep the workshop attendance within reach of operations-level individuals, who benefit most from these technical workshops.

Sponsors benefit both directly and indirectly by having their names associated with a specific workshop.

While SPE prohibits any type of commercialism within the conference hall itself, the society recognises that sponsoring companies offer valuable information to attendees outside the technical sessions.

### Sponsorship Categories

Sponsorships are offered on a first come basis. Please contact SPE to verify the availability of a particular sponsorship. Existing sponsors have the opportunity to renew the same level of sponsorship for annual workshops.

### The available sponsorship packages are:

Silver  
Bronze  
Workshop Dinner  
Welcome Reception  
Coffee Break  
Luncheon  
Audio-Visual Equipment

### Sponsorship Benefits

In addition to onsite recognition, SPE will recognise sponsors on the SPE website and in all printed material for the workshop. Based on the sponsorship selected, sponsoring companies also receive logo visibility on promotional workshop items.

### For More Information

Please contact the Event Manager Deepa Choitram at [dchoitram@spe.org](mailto:dchoitram@spe.org).

### Workshop Sponsor



### Gold Sponsor

### Workshop Schedule:

**Monday, 16 November**

0900–1000 hours

Training Course Registration

1000–1800 hours

Training Course - Deep Drilling Design Concepts By Abdel-Sattar Dahab

1700–1800 hours

Workshop Registration

1800–1900 hours

Networking Hour

**Tuesday, 17 November**

1000–1330 hours

Session 1: Well Planning

Well planning has paramount significance for oil and gas companies. In the case of deep wells, planning becomes more essential for accomplishing successful projects. Normally, in deep horizons drilling and completion, we encounter all types of well challenges. Because such well costs are normally high, proper planning will reduce costs through safe operations, time optimisation and appropriate decision making. Well planning starts from the time the company agrees on the well coordinates, all the way through authority approval, well location, well design, and material procurement, until the well is safely handed over to the production department. While planning for a deep well, engineers consider the latest technologies in the market and make sure they have the proper applications. HSE, well control, suitable human skills and innovative ideas are also contributing in achieving this target.

1430–1800 hours

Session 2: Well Integrity

A stable wellbore promotes personnel safety, efficient drilling operations, high-quality wellbore logs and trouble-free completions. A destabilised wellbore can impair or prohibit its use, compromise the well plan and reduce or eliminate production. Preventing these costly stability problems requires an accurate prediction of the conditions that cause wellbore failures. This understanding helps in management of the often delicate relationship between wellbore stability and internal wellbore pressure. A very high differential can create wellbore fracturing and losses. Also, the compatibility of the utilised fluids with the formation fluids has to be managed to avoid formation damage. Often, these critical wellbore failures were limited to reacting to problems once they occurred. New analysis processes and technologies present in the industry are providing reliable, timely pre-drill predictions of the near-wellbore pressure and stress environment, formation damage avoidance by accurate fluid selection criteria and proposed process to design the correct fluid for reservoir drilling, completion, clean-up and interventions.

1800–2000 hours

Welcome Dinner and Reception

**Wednesday, 18 November**

1000–1330 hours

Session 3: Equipment

Drilling equipment is the key for successful wells and deep wells normally require particular equipment to meet the unusual conditions that may be encountered. A few years ago, 20,000 feet depth was considered the limit for deep wells. At the present time, operators target and drill more than 30,000 feet wells in many places. However, such depths, several challenges face the industry and consequently technology intervenes. Several examples for such requirements will be discussed in this session. Drilling rigs with high specifications allow drillers to carry out deep operations. Deep water and deep wells will necessitate more sophisticated rigs. Drill string, casing and tubing and downhole motors are all different from those used in shallower wells. Deeper formations become harder and that requires special bits and BHA. Surface equipment like BOP's, wellheads and christmas trees should be well designed and selected from material that will withstand the abnormal surface pressure. These are a few examples of the challenges that will be addressed in this session.

1430–1815 hours

Session 4: Economics

Well cost is one of the main issues that concerns oil and gas companies as it represents a major part of the exploration and development budget. From the well spud to the tie-in of the production facilities there are several areas that can be investigated for cost optimisation. When the drilling engineer prepares an Authorisation For Expenditure (AFE) for a new well, he endeavors to study possible solutions to bring the cost of the well down. In spite of the technology, it is normally expensive, but if rationally applied, it will definitely save money. Selecting right skills, equipment and material will enhance performance and consequently save time and decrease cost. Innovative drilling concepts, drilling without damaging reservoirs, drilling and completing wells with zero loss time, are all contributing factor to achieve good and economically drilled wells. In deep wells the need to consider economical methodologies in well construction is increasing as deep wells are usually associated with more difficult situations. Deep wells usually take more time and that is why all financial and economical performance indicators should be evaluated. Indicators may include Net Present Value (NPV), Pay Back and Internal Rate of Return (IRR).



### Coffee Break Sponsor – 17 November 2009

### Training Course “Deep Drilling Design Concepts”

16 November 2009 | JW Marriott Hotel | Cairo, Egypt

By Abdel-Sattar Dahab, Chairman of Petroleum Engineering Department, Cairo, Egypt

### Intended Audience

Individuals involved in HPHT well planning and operations who want to strengthen their well planning skills, especially experienced drilling engineers, mud engineers and geoscientists.

### Seminar Instructor

Abdel-Sattar Dahab was born in Shebin El-koom, Monofia, Egypt, on April 12, 1950. He obtained his B.Sc. and M.Sc. degrees in petroleum engineering from Cairo University in 1973 and 1976 respectively. He was an instructor at Cairo University for three years before he left for his graduate and got his Ph.D. from National Polytechnical Institute of Loraine, Nancy, France in 1980. Dahab then joined Cairo University, Egypt as an assistant professor for drilling engineering. He was promoted to the rank of full professor in 1991. Currently, Dahab is chairman of the Petroleum Engineering Department and professor of drilling engineering at Cairo University, Cairo, Egypt.

Dahab was a consultant engineer in the drilling department on a part-time basis at Gulf of Suez Petroleum Company (GUPCO), Egypt during 1981–1982 and 1983–1985. He was the SPE continuing Education Chairman, Egyptian Section and SPE Faculty Sponsor at Cairo University for many years. Dahab worked as a visiting professor at ENSG, INPL, Nancy, France in 1982–1983, where he established a linkage program between the department of Petroleum Engineering, Cairo University and Laboratoire Substances Utiles et Energetique, Nancy, France.

Dahab participated in evaluating many petroleum engineering projects and technical papers in the area of drilling engineering, formation damage and engineering geology for national and international journals. He was the General Secretary of the Faculty Council, Faculty of Engineering, Cairo University during 1992–1993.

Dahab offered many short and training courses in the area of drilling optimisation, underbalanced drilling, horizontal drilling, drilling fluids, well stimulation, well control, well completion and workovers for petroleum engineers in Egypt, Syria, Libya, Tunisia, UAE, Kuwait, Saudi Arabia, Sudan, Qatar, Oman, and Algeria.

Dahab supervised a large number of M.Sc. and Ph.D. thesis in Cairo University and King Saud University. He published over 60 technical papers in different specialised national and international journals and conference proceedings. He participated in writing and editing a book entitled “Encyclopedia of Petroleum Engineering Terms” published by King Saud University press, Saudi Arabia.

### Course Description

Technical concepts in HPHT drilling will be reviewed and the specific design steps and tools will be discussed for the key planning processes. Formation pressure prediction, fracture pressure determination, casing setting depth, drilling fluids rheology, hydraulics, bit selection and cementing program will be highlighted. Participants will leave the course with a thorough understanding of the entire HPHT well planning, implementation, analysis process, specific design steps, processes, and checklists.

### Course Objectives

By the end of this course the participant will be able to:

- Understand the design concepts in HPHT drilling
- Know how to analyse offset data
- Predict formation pressure
- Calculate fracture pressure
- Select the casing setting depth
- Select drilling fluids
- Design cement slurry to avoid HPHT problems
- Test drilling fluids rheology at HPHT
- Understand the contaminants of drilling fluids
- Monitor performance
- Deal with bore-hole problems related to drilling fluids, pressure prediction and control

### Course Content

- Elements of successful planning/optimisation
- Offset and data analysis
- Formation pressure prediction
- Fracture pressure determination
- Casing setting depth selection
- Drilling fluids
- Well hydraulics
- Cementing practices
- Optimisation of drilling parameters

### Cost and Residency Information

This is a nonresidential training course.

To register for the training course, please use inside form for registration and fax it to +971.4.366.4648 or email it to [formsdubai@spe.org](mailto:formsdubai@spe.org). Alternatively, log into [www.spe.org/events/09aale](http://www.spe.org/events/09aale).

### Cost and Residency Information:

This is a nonresidential workshop. The workshop fee include all workshop sessions, daily coffee breaks and luncheons. The registration fees are as follows:

### 1 Day Training Course–Deep Drilling Design Concepts on 16 November 2009:

International: Egyptian Nationals or Non-Egyptian Nationals based outside Egypt  
SPE members USD 450 Nonmembers USD 550

### 2 Days Workshop (Excluding the Training Course):

National: Egyptian Nationals Based in Egypt  
SPE Members EGP 3,000 Nonmembers EGP 3,300

International: Egyptian Nationals or Non-Egyptian Nationals based outside Egypt  
SPE Members USD 1,100 Nonmembers USD 1,200

### 3 Days Workshop (Including the Training Course):

National: Egyptian Nationals based in Egypt  
SPE members EGP 3,600 Nonmembers EGP 3,900

International: Egyptian Nationals or Non-Egyptian Nationals based outside Egypt  
SPE members USD 1,450 Nonmembers USD 1,550

### Registration Policy:

- Registration fee MUST be paid in advance for attending the Applied Technology Workshop.
- Full fixed fee is charged regardless of the length of time that the registrant attends the workshop.
- Fixed fee cannot be prorated or reduced for anyone (workshop cochairpersons, committee members, speakers, discussion leaders, students and registrants).
- Attendees are expected to attend all workshop sessions and are not permitted to attend on a partial basis.

### Cancellation and Refund Policy:

- A processing fee of USD 100 will be charged for cancellations received before the registration deadline 16 October 2009
- For cancellations received after the registration deadline, 16 October 2009, 25% refund will be made to the registrant.
- No refund on cancellations received within seven (7) days prior to the workshop date, i.e. on or after 9 November 2009

## Upcoming Workshops and Conferences/Forums

<b>12–14 Oct</b>	<b>Artificial Lift Intelligence for Production Optimisation</b> <i>Cairo, Egypt   Event Manager: Deepa Choitram (<a href="mailto:dchoitram@spe.org">dchoitram@spe.org</a>)</i>
<b>19–21 Oct</b>	<b>SPE/EAGE Reservoir Characterization and Stimulation Conference (RCSC)</b> <i>Abu Dhabi, UAE   Event Manager: Waleed Refaay (<a href="mailto:wrefaay@spe.org">wrefaay@spe.org</a>)</i>
<b>26–28 Oct</b>	<b>SPE/IADC Middle East Drilling Technology Conference and Exhibition (MEDT)</b> <i>Manama, Bahrain   Event Manager: Deepa Makhija (<a href="mailto:dmakhija@spe.org">dmakhija@spe.org</a>)</i>
<b>18–21 Nov</b>	<b>Artificial Lift: Reality and Possibilities</b> <i>Ahmedabad, India   Event Manager: Loreen Nisha (<a href="mailto:lnisha@spe.org">lnisha@spe.org</a>)</i>
<b>7–9 Dec</b>	<b>International Petroleum Technology Conference and Exhibition (IPTC)</b> <i>Doha, Qatar   Project Manager: Muniza Bano Shaikh (<a href="mailto:mshaikh@iptcnet.org">mshaikh@iptcnet.org</a>)</i>
<b>13–15 Dec</b>	<b>Delivering Projects at a Time of Uncertainty: Seizing the Right Opportunities</b> <i>Abu Dhabi, UAE   Event Manager: Barbara Stahli (<a href="mailto:bstahli@spe.org">bstahli@spe.org</a>)</i>
<b>14–16 Dec</b>	<b>Kuwait International Petroleum Technology Conference (KIPCE)</b> <i>Kuwait City, Kuwait   Event Manager: Deepa Choitram (<a href="mailto:dchoitram@spe.org">dchoitram@spe.org</a>)</i>
<b>Year 2010</b>	
<b>20–22 Jan</b>	<b>SPE Oil and Gas India Conference and Exhibition (OGIC)</b> <i>Mumbai, India   Event Manager: Loreen Nisha (<a href="mailto:lnisha@spe.org">lnisha@spe.org</a>)</i>
<b>24–26 Jan</b>	<b>Deep Gas Conference and Exhibition (DGAS)</b> <i>Manama, Bahrain   Event Manager: Nikki Youlden (<a href="mailto:nyoulden@spe.org">nyoulden@spe.org</a>)</i>

## Workshop Guidelines

### Format

2 days of informal discussions prompted by selected keynote presentations and discussions. Workshops maximise the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices. The majority of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and the press is not invited to attend.

### Documentation

Proceedings from the workshop will not be published; therefore, formal papers and handouts are not requested of speakers or panel members. A URL containing released copies of the workshop presentations will be available to attendees following the workshop.

### Poster Sessions

The steering committee encourages registrations from professionals who are able to prepare and present a poster on a relevant project. For further details kindly contact Deepa Choitram, event manager at [dchoitram@spe.org](mailto:dchoitram@spe.org).

### Scribe

The steering committee will appoint a “scribe” to record the discussions and to produce the full workshop report for SPE. This report will be circulated to all attendees as the workshop deliverable within 4–6 weeks following the workshop. The copyright of the report is with SPE.

### Attendance Certificate

All attendees will receive an attendance certificate attesting to their participation in the workshop. This certificate will be provided in exchange for a completed workshop questionnaire.

### Continuing Education Units

This workshop qualifies for SPE Continuing Education Units (CEU) at the rate of 0.1 CEU per hour of the workshop.

### Commercialism

In remaining consistent with workshop objectives and SPE guidelines, excessive commercialism in presentations will not be permitted. Company logos should be limited to indicate the affiliation of the presenter(s).