

Artificial Lift and Production Enhancement Through Electrical Submersible Pump

20 - 22 October 2020 | Virtual [UTC+8]



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Who Should Attend

Professionals involved in:

- Oilfield Operations
- Production Technology
- Production Operation
- Completions
- Artificial Lift Optimisation
- Reservoir Engineering
- Production and Asset Management
- ESP Manufactures
- Real-Time Monitoring Application
- Power Generation
- Electrical Engineering
- Oilfield Strategic Analysis
- Research and Development
- Automation Engineering

The Electrical Submersible Pump (ESP), while may be expensive, is an efficient and reliable artificial lift technology for lifting moderate to high volumes of fluids. Smaller size ESPs with alternative deployment methods can provide substantial cost saving opportunities for smaller production. ESPs account for almost one-third of the total artificial lift systems globally. ESP application continues to grow worldwide as reliability, solids and gas handling capabilities improve, especially in mature fields. ESP technology has advanced incredibly since its inception, with several improvements and innovations made to meet clients' ever-increasing demands.

However, ESP operations continue to be a challenge to many operators worldwide, with the drive for increased efficiency and reduction in power utilisation to reduce operating expenditure taking centre stage. The current pandemic situation combined with low oil prices adds cost considerations to deployment of ESP technologies. This will require additional measures by operators and business partners to ensure sustainability of the ESP lifecycle from manufacturing to installations to operations.

This workshop presents a unique opportunity for participants to broaden their understanding of current ideas and processes of ESP systems, and for industry practitioners to share and discuss best practices, lessons learnt, and technological advances. It will present a platform for collaborative engagement between operators, government authorities and service providers to share their experiences and learn from each other's success stories, concerns, challenges, requirements and drivers. The ultimate aim is for participants to have better ESP operating experience, and to introduce ESP as the most effective, current and future solution to optimise green and mature fields production. It will also be an opportunity to discuss and share best practices on how to remain sustainable in the current economic situation using innovative, cost-effective solutions throughout the lifecycle of ESPs.

The workshop also offers professional development opportunities for the aspiring young engineers to grow and strengthen their professional awareness, enhance their knowledge and skills, and network with like-minded peers and seniors in the industry.

Session Highlights

- | | | |
|--|---|------------------------------------|
| ESP Design, Equipment Selection and Production Optimisation | ESP Technology Advancements - Application and Case Studies | ESP Alternative Deployment Methods |
| ESP Reliability - Impact of Power Supply Quality and Improved Power Efficiency | ESP Run Life Challenges, Troubleshooting, and Post Failure Analysis | |
| Cost Effective Solutions in Challenging Oil Price Environment - ESP Contract Strategy, Installation, Manufacturing, and Operations | | |

GROUP REGISTRATIONS AVAILABLE
Contact us at apweb@spe.org to arrange your group.

go.spe.org/21WM05W

Workshop Objectives

This workshop provides opportunities for sharing and discussing views, experience, success stories, technology advancement, and challenges from operators, service providers, regulators, and decision makers. The programme discusses lessons learnt and value improvements generated through strategic collaborations, and innovative strategies to design for disassembly instead of for decommissioning, improve development commercial viability, and execution efficiency to sustain and prolong the field life.



hours of peer-to-peer networking opportunities



hours of knowledge sharing and technical discussion



expert-led technical discussion topics



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Weatherford

WORKSHOP ADVISOR



Juhaidi Jaafar
Head - Sarawak Cluster 3, Resource Development & Management,
Malaysia Petroleum Management, Upstream Business
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Member, SPE Asia Pacific Regional Technical Advisory Committee

Programme Schedule

Tuesday, 20 October 2020	
1300 - 1430 hours	Session 1 ESP Design, Equipment Selection and Production Optimisation
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2 ESP Alternative Deployment Methods
1630 - 1700 hours	Networking Break
Wednesday, 21 October 2020	
1300 - 1430 hours	Session 3 ESP Technology Advancements - Application and Case Studies
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4 ESP Reliability - Impact of Power Supply Quality and Improved Power Efficiency
1630 - 1700 hours	Networking Break
Thursday, 22 October 2020	
1300 - 1430 hours	Session 5 ESP Run Life Challenges, Troubleshooting, and Post Failure Analysis
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 6 Cost Effective Solutions in Challenging Oil Price Environment - ESP Contract Strategy, Installation, Manufacturing, and Operations
1630 - 1700 hours	Networking Break

TUESDAY, 20 OCTOBER 2020

1300 - 1430 hours **Session 1: ESP Design, Equipment Selection and Production Optimisation**
Session Managers: *Ikenna Chigbo, Mubadala Petroleum; David Cox, Baker Hughes*

Electric submersible pump (ESP) systems are probably best known as an effective artificial lift method of pumping production fluids to the surface. ESPs are especially effective in wells with low bottom hole pressure, low gas/oil ratio, low bubble point, high water cut, or low API gravity fluids.

Once the decision is made to employ ESPs over other artificial lift methods, a rigorous, and somewhat iterative process is required to design the ESP system to achieve a desirable level of performance during the operational phase.

The ESP system, which consists of downhole and surface components, clearly does not exist in isolation, and must be closely coupled with the well and completion design, and aligned with the expected transient reservoir performance, which often has a degree of uncertainty associated with it. Therefore, a holistic approach is required during the design and selection of the overall system, which takes into consideration the key uncertainties of a well's full production lifecycle. There also needs to be an assurance process in place, where key decisions are verified during the design phase and validated during the operational stage. This is to ensure that, during the operational phase, these decisions do not serve as constraints in realising production optimisation opportunities.

This session is intended to illuminate a practical approach to ESP system design and equipment selection, focusing on the essential design elements, assurance tasks, and manufacturing quality control, and the impact of these activities on achieving the overall well production objectives. Built-in design flexibility in ensuring that production optimisation upsides are adequately captured during the well production lifecycle and associated potential cost impacts should also be explored.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 2: ESP Alternative Deployment Methods**
Session Managers: *Ghazaly Bakar, Uzma Berhad; Saurabh Anand, PETRONAS*

In the current situation of ageing oil fields and the volatile oil price environment, it is essential to develop alternative deployment strategies for ESP. The conventional practice of tubing-conveyed ESPs may no longer be economically feasible, especially offshore or marginal remote onshore wells. Various alternative deployment methods such as coil tubing, slickline, and cable-deployed have been piloted by various operators in different fields, however, these technologies have yet to make the "big breakthrough", in which ESP will be a game changer.

This session will discuss:

- Case studies of alternatively deployed ESPs
- Innovative technologies
- The way forward and future outlook

1630 - 1700 hours Networking Break

WEDNESDAY, 21 OCTOBER 2020

1300 - 1430 hours **Session 3: ESP Technology Advancements - Application and Case Studies**
Session Managers: *Andrew Holmes, Uzma Berhad; Azmukiff B Muhammed Kifli, Vestigo Petroleum*

ESP technologies has been a proven hydrocarbon extraction technology in this industry. With the recent technological advancements in design and engineering, and applications in fields and monitoring, ESP has enhanced its position as one of the best solutions in the market.

While oil companies are managing their cost structure to improve economic returns, ESP application enables accelerations of oil extractions, and thus supports this approach. However, technology advancement is needed to support higher expectations, by improving the design limit and life. This includes requirement to operate in harsher environments, smaller casing sizes, longer run lives, and more.

This session will discuss:

- New technologies
- Material enhancements
- New surveillance technologies
- Artificial intelligence
- Case studies

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 4: ESP Reliability - Impact of Power Supply Quality and Improved Power Efficiency**
Session Managers: *David Grassian, Mubadala Petroleum; Yudthanan Rattananurujikorn, PTTEP Sarawak Oil Limited*

ESPs are downhole devices that convert electrical power into hydraulic head. Therefore, the performance of ESP is believed to be closely connected to the quality of the electrical power supply. Electric power quality is related to voltage, frequency, and waveform. Good power quality is associated with a steady voltage and frequency supply that stays within a desired range, and a smooth voltage waveform (harmonics).

The electrical system of an ESP often consists of an electrical source (internal or external), a motor controller or variable speed drive, transformers and multicore cables connecting the surface equipment and the downhole pump motor. Each component plays a role in the delivery of acceptable power quality to the ESP motor. It is also useful to consider power quality as the compatibility between the electrical source and the load that is plugged into it, therefore ESP motor designs are also an important consideration.

This session explores a critical, and often overlooked, subject for ESP operations, such as the relationship between power quality, ESP runtime, and performance. Factors that affect power quality will be explored, and mitigations to ensure longer ESP runtime and higher energy performance will be identified. Additionally, the initiative has the potential to modestly reduce GHG emissions.

1630 - 1700 hours Networking Break

THURSDAY, 22 OCTOBER 2020

1300 - 1430 hours

Session 5: ESP Run Life Challenges, Troubleshooting, and Post Failure Analysis
Session Managers: Babu Raman, *Weatherford*; Nurul Asyikin Binti Mohd Radzuan, *PETRONAS Carigali Sdn Bhd*

ESPs are typically installed in high-flow applications. The system is designed based on certain assumptions that is more accurate in real-time conditions at the well-site. Few common areas affecting the ESP run life and performance are the installation, reservoir and fluid characteristics, well deliverability, and operation efficiencies. Integrated field management strategy could change with time, which leads to new ways of operations by using ESP.

This session therefore details an imperative, and often mis-interpreted subjects such as:

- ESP run life and performance
- Understanding of reservoir and fluid characteristics
- Changing of reservoir management and well productivity
- Runtime and overall system efficiency
- Selecting the right form of lift and running the system at optimal efficiencies delivers strong value such as improved Return on Investment (ROI)
- Post Failure Analysis is a critical element that will bring huge impact to future ESP design, installation and application.
- Value that ESP can deliver by balancing the increased production against the cost of hardware/software.

1430 - 1500 hours

Networking Break

1500 - 1630 hours

Session 6: Cost Effective Solutions in Challenging Oil Price Environment - ESP Contract Strategy, Installation, Manufacturing, and Operations
Session Managers: Jesus G. Nava, *PETRONAS*; Cenobio Rivas Mora, *Repsol Oil & Gas Malaysia BU*

With the COVID-19 pandemic situation and volatile oil and gas prices, the industry is adapting by seeking innovative solutions. New procurement and commercial strategies are being explored in order to sustain and/or enhance the oil and gas production safely and profitability.

The aim of this session is to study the magnitude of impact caused by the COVID-19 pandemic and unstable oil prices. We will also discuss and identify the challenges and propose solutions that the oil and gas industry can implement in their current procurement and commercial strategies. The key is to develop the most appropriate ESP solution for mature fields, for both onshore and offshore operations without compromising safety, environment, and equipment reliability.

This session will discuss:

- Challenges and lessons learned from the COVID-19 pandemic
- Purchase, lease, or hybrid commercial model
- Cost effective application of ESP for mature fields

1630 - 1700 hours

Networking Break

Register and join the sessions at your local time:

- 0800 hours - Doha / Kuwait City / Manama / Riyadh
- 0900 hours - Abu Dhabi / Dubai / Muscat
- 1030 hours - New Delhi
- 1130 hours - Yangon
- 1200 hours - Bangkok / Hanoi / Jakarta
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- a. Presentation slides / Proceedings will not be published; therefore, formal papers and handouts are not expected from Discussion Leaders.
- b. Work in progress, new ideas, and interesting projects are sought.
- c. Resource documents may be provided as pre-reads and during the live event.

2. Workshop Deliverables

- a. An on-demand version of the live event sessions will be made available to registered participants only.
- b. Provision of the live event sessions and presentation materials by Discussion Leaders will signify their permission for SPE to do so.

3. Commercialism

In keeping with the Workshop objectives and the SPE mission, excessive commercialism in presentations are not permitted. Company logos must be limited to the title slide and used only to indicate the affiliation of the presenter.

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All attendees will receive a certificate of attendance. The certificate will be made available during the live event once participants have completed the required viewing/participation time.

5. Continuing Education Units

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	Job Title	<input type="text"/>	Email Address	<input type="text"/>	
	SPE Member	<input type="checkbox"/> Yes <input type="checkbox"/> No	Membership Number	<input type="text"/>	
6	First Name (Forename)	<input type="text"/>	Last Name (Surname)	<input type="text"/>	
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Page 1

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	SPE Member	<input type="checkbox"/> Yes <input type="checkbox"/> No	Membership Number	<input type="text"/>	
10	First Name (Forename)	<input type="text"/>	Last Name (Surname)	<input type="text"/>	
	Job Title	<input type="text"/>	Email Address	<input type="text"/>	
	SPE Member	<input type="checkbox"/> Yes <input type="checkbox"/> No	Membership Number	<input type="text"/>	
TOTAL AMOUNT (USD)					

REGISTRATION TERMS & CONDITIONS

Registration Fee

- Registration for this virtual workshop is personal to Participant. Viewing and materials may not be shared with non-registered individuals without express consent from SPE.
- Each participant is limited to maximum of two (2) devices to access/login into the virtual workshop.
- Registration is non-transferable without written notification to SPE.
- Registration of participation will only be confirmed upon receipt of full payment or an acceptable employer's letter of guarantee.
- SPE reserves the right to cancel the registration if no payment is received prior to or on the date of the virtual workshop.
- Full fee is charged regardless of the length of time the Participant attends the virtual workshop and cannot be pro-rated.

Taxes

- Fees are made free and clear of, and without any deduction or withholding for and on account of, any taxes, duties or other deductions. Any such deduction or withholding, if required by the laws of any country are the sole responsibility of the participant.

Cancellation Policy

- A processing fee of USD 50.00 per person will be charged for cancellation received before 15 October 2020.
- No refund for cancellation received after 15 October 2020.
- Participants who failed to attend will not be eligible for a refund.
- Cancellation must be notified in writing to SPE. Email your cancellation request to apweb@spe.org.

Copyright

- All content contained within the SPE events is copyrighted either by SPE or other providers and its capture in any format, use and/or reproduction outside the portal is strictly prohibited without express permission from the content owner(s).

Privacy Policy

- SPE cares about the protection of participants' personal information. SPE's Privacy Policy describes participants' rights and choices regarding the personal information that you provide to us.
- SPE's Privacy Policy describes the practices regarding how SPE, through its affiliated corporate entities, collects, uses, discloses, or transfers the personal information that participants share with SPE or that SPE collect about participants when they attend one of SPE events, or visit SPE websites, or use SPE mobile applications.
- SPE complies with applicable privacy laws, including GDPR, in collecting and processing participants' data. Participants have control over how much of their personal data is shown to other participants for networking purposes, and manage the data in their personal profile where applicable. The virtual event platforms process the data attributed to this virtual workshop on behalf of SPE.
- SPE collects and processes data for the purposes of fulfilling participants' registration order, analysing how this site performs and is used, and marketing for future related SPE events. All Participants maintain the right of erasure and can withdraw their consent at any time. Please visit SPE website at <https://www.spe.org/en/about/privacypolicy> for further details on SPE's Privacy Policy.
- By engaging with sponsor, participants are consenting to sponsoring companies having access to the personal data that is public in their personal profile. Participants will need to contact the sponsoring companies regarding their privacy policies and to request erasure.
- SPE reserves the right to amend the SPE Privacy Policy at any time and will place the latest version on SPE website.

Disclaimer

- SPE reserves the right to change the speaker(s), date(s) and/or to cancel the virtual workshop should circumstance beyond its control arises.
- SPE will not be liable to participants for any damages, costs, losses or expenses of any kind incurred or suffered by participants as a result of or in relation to SPE modifying, postponing or cancelling the virtual workshop or any part of the virtual workshop.

PAYMENT METHODS

- Telegraphic Transfer**
 Bank details will be provided in the invoice.
- Credit Card**
 SPE accepts American Express, Visa, MasterCard and Diners Club and payment will be processed in US Dollars only.
- To pay online, go to:
www.spe.org/go/21WM05
- For manual payment, you will receive an email with instruction on securely submitting your payment.

SPE Contact:
Society of Petroleum Engineers
 Email: apweb@spe.org

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SIGN UP BEFORE 21 AUGUST 2020 FOR SUPER EARLY BIRD DISCOUNT!