**Workshop Objectives**

The principal objective of this workshop is to share the latest developments in onshore and offshore heavy oil recovery, encompassing technologies and the field experience gained. The focus is on knowledge sharing in an interactive environment.

**Workshop Details**

- **Date:** 22-23 September 2015
- **Location:** Sofitel Budapest Chain Bridge Hotel, Budapest, Hungary
- **Website:** [www.spe.org/events/14abud](http://www.spe.org/events/14abud)

**Important Notes**

- Attendance is limited and is not guaranteed. Early registration is recommended. Please print or type in black ink.
- Registration Fee MUST be paid in advance for attending the workshop.

**Payment Details**

- **Bank Transfer:** Barclays Bank, 50 Pall Mall, London SW1A 5DA, UK
  - Name of Account: SPE Ventures
  - Account Number: 62 26 56 88
  - Sort code: 20-67-59
- **SWIFT/BIC:** BARCGB22
- **IBAN:** GB18 BARC 2067 5962 2656 88

**Registration Deadline**

- **Deadline:** 8 September 2015

**Contact Information**

- **Telephone:** +44 (0) 20 7299 3309
- **Fax:** +44 (0) 20 7299 3300
- **Email:** formslondon@spe.org

To submit your registration online, please visit the event’s website at: [www.spe.org/events/14abud](http://www.spe.org/events/14abud).

Alternatively, you can email this form to formslondon@spe.org, or fax it to: +44 (0) 20 7299 3309.
Heavy Oil: Lifting Recovery to the Next Level

SCHEDULE
MONDAY 21 SEPTEMBER
1800-1930 | Registration and Welcome Reception
TUESDAY 22 SEPTEMBER
0900-1030 | Session 1: Cold Heavy Oil Flooding
Session Chairs: Stuart Law, LR Energy
David Rousseau, IFPEN

Waterflooding appears to be a viable option for heavy oil recovery in situations where thermal methods cannot be utilized. Several chemical enhanced oil recovery (EOR) methods (polymer, SPA, ASP and low-salinity waterflooding) have in recent years been considered to overcome adverse mobility ratios, reduce interfacial tension, and increase reservoir sweep. These methods are catching up. Meanwhile, experiences with thermal recovery and production of challenging heavy oil resources around the globe.

1030-1100 | Coffee Break
1100-1230 | Session 2: Thermal Heavy Oil Production
Session Chairs: Bernd Leonhardt, Wintershall Holding GmbH
Darcy Spady,Saudi

Thermal methods are still the most commonly used techniques to recover oil from heavy oil, i.e. highly viscous oil fields. All thermal methods, pattern or line-drive injection of hot water, or superheated steam, hold the majority in this respect. However, cyclic steam injection (“huff-n-puff”) and steam-assisted gravity drainage (SAGD) are catching up. Meanwhile, experiences with thermal recovery have been collecting now for over 50 years—onshore. A major part in these learnings is the emerging data on thermal well integrity, including a look at case studies of wellbores that have endured thousands of steam cycles. On the other hand, experiences with offshore thermal recovery are still sparse. The yet untapped heavy oil resources offshore, and partially onshore, can still significantly contribute to satisfying future demand. This session will give attendees the chance to discuss long-term experiences with relevant experts and gain insight into new findings for real projects.

1330-1500 | Session 3: Reservoir Management and Production Optimisation
Session Chairs: Elena Escobar Alvarez, Repsol
Steve Webb, CGM

Heavy oil reservoirs pose some unique challenges for reservoir planning and production optimisation. From characterising the reservoir to assessing improved recovery techniques to finding strategies that can obtain optimum production, heavy oil development and production each have their own set of special difficulties. In the development of heavy oil reservoirs, economically maximising oil recovery involves a cross-functional team, involving all technical areas, management, economics, legal, and environmental groups, who work to minimise capital investments and operating expenses. This session will focus on case histories and lessons learnt with heavy oil fields from a reservoir management and production perspective.

1330-1500 | Lunch
1500-1630 | Session 4: Completion Design
Session Chairs: Hervé Petit, Halliburton
Raj Rajan Alvarez, Alberta Innovates Technology Futures

The technological innovations used to resolve unique problems in enhanced heavy oil recovery in North America are potentially applicable to the rest of the world’s heavy oil production. Heavy oil reservoirs pose many well completion challenges such as cementing, wellbore integrity, and other issues. Developments in intelligent completion techniques including improved cementing, the use of novel flow and sand control devices, and advanced wellbore instrumentation have helped improve production efficiency. This session will discuss key developments and lessons learnt in the recovery and production of challenging heavy oil resources around the globe.

1700-1730 | Wrap Up and Close of Workshop

WEDNESDAY 23 SEPTEMBER
0900-1030 | Session 3: Reservoir Management and Production Optimisation

1030-1100 | Coffee Break
1100-1230 | Session 3: Continued
1230-1330 | Lunch
1330-1500 | Session 4: Completion Design

SPE is committed to ensuring that the environmental impact of our events is kept to a minimum. We aim to make progress in the field of sustainability through reducing energy usage, promoting eco-friendly mobility, reducing water consumption, and limiting waste, all core values in keeping with those of the oil and gas industry.