



Wednesday, April 28, 1999

SESSION I - CO-CHAIRS: SYLVIA GAILEY & BUFORD NEELY

- 09:00 **Keynote Speaker: DeAnn Craig, Phillips Petroleum Company**
 "Perspectives of an Engineer Turned Lobbyist"
- 09:45 Selecting the Appropriate Rodless PC Lift System for a Highly Deviated Wellbore
 Ryan Chachula, PanCanadian Petroleum Limited
 J .S. Mann, Reda
- 10:15 Electric Submersible Progressing Cavity Pump The System - A Tutorial
 David L. Olson, Centrilift
- 10:30 BREAK
- 11:00 Electric Submersible Progressing Cavity Pump Reduces Operating Cost and Increases Run Life over a
 Conventional Beam Pump - A Case Study
 Lee Zabel, Centrilift
- 11:30 Electric Submersible Progressing Cavity Pump Extends Run life in damaged wells - A Case Study
 Lee Zabel, Centrilift
- 12:00 LUNCH

SESSION II - CO-CHAIRS: ROBERT LANNOM & RODNEY STOREY

- 13:00 Production Optimization by Combined Artificial Lift Systems and its Application in Two Colombian Fields
 Hubert Borja, Ricardo Castano HOCOL
- 13:30 ESP-Gas Lift Combination - A Successful Trial for the First Time in ONGC, India
 K. K. Kahali, B. Deuri & S.K.De, Oil & Natural Gas Corporation, Limited, India
- 14:00 Performance and Design of an Electrical Submersible-Jet Pump System for Artificial Lift in Gassy Oil Wells
 Paulo Carvalho, A.L. Podio, K. Sepehrnoori Petrobras/UT at Austin
- 14:30 BREAK
- 15:00 CT Conveyed Downhole Safety Valve/Packer for Simplified Cost Effective ESP Completions
 Philip Head, Dan Turner, XL Technology Limited, Roland Van Dort, Weatherford Completion Services
- 15:30 New Ways in the Relationship Between Operator and Supplier Increase the Use of ESP System in Argentina
 Hugo Sivori, Hugo Leschner, YPF, Argentina
- 15:45 South China Sea Gas Lifted Oil Well Conversion Utilizing Coil Tubing Electric Submersible Pumping Systems
 Guillermo Pastor, Ronald Knoppe, Brunei Shell Petroleum Co., Randy Shepler, REDA
- 16:15 **BREAK OUTS:**
 Equipment Failures – Carl Cox
 VFD's – Noel Putscher
 Downhole Progressing Cavity Pumps - Mark Johnson
 Alternate Deployed – John Patterson

18:00 – 19:30 **COCKTAIL PARTY**

Alternates for Session 2

Well Completion Employing Multiple Fluid Flow Paths
Olegario Rivas, R. Alfredo Sanchez, REDA



Thursday, April 29, 1999

"Equipment: New Technology, Testing, and Selection Guidelines"

SESSION III - CO-CHAIRS: MIKE PARKER & SHAUNA NOONAN

- 08:30 Tapered Pump Experimental Tests with Light and Heavy Oil in PDVSA Intevep Feild Laboratory
Rui Pessoa, Miguel Machado, Jorge Robles, Sharon Escalante PDVSA Intevep, **Joe Henry**, Centrilift
- 09:00 Gas Separator Performance Evaluation and Application Guideline
Woon Y. Lee, Ph.D., REDA
- 09:30 Experience with Premium Downhole ESP Instrumentation
Chris Norris, Petroleum Development Oman
Julian Cudmore, Phoenix Petroleum Services
- 09:45 BREAK**
- 10:15 Performance of Russian Built Electric Submersible Pumps in a Canadian Oilfield
Nathan W. Kupsch, T. Reed Scott, BP Amoco
- 10:45 Bearing Selection for Specific Applications
Dwight C. Chilcoat, Reda
- 11:00 Minimizing Cable Costs By Intelligent Selection
David Livingston, Larry Dalrymple, Centrilift
- 11:30 Quality Expectations for Purchase of Electric Submersible Pumps
Jim Taylor, Barrick Goldstrike Mines, Inc. **Carlos Talbott**, Talbott & Associates
- 12:00 LUNCH

SESSION IV - CO-CHAIRS: JOHN PATTERSON & KEN LACEY

- 13:15 Device for Flat Cable Current Balancing
Jim Layton Centrilift
- 13:30 ESP Lightning Protection Revisited
Thomas Brinner
- 13:45 Voltage Stresses in Electric Submergible Pumps Operated by Variable Speed Drives
Bill Pelton, Reda **Kurt LeDoux**, Toshiba **Don Kelly**, A. Comeau & Associates
- 14:15 BREAK**
- 14:45 Gas-Liquid Flow Through Electric Submersible Pumps
Roberto Cirilo, PDVSA Exploration & Production, **Dale Doty**, Tulsa University
- 15:15 Closed-Loop Control Optimization System for Electric Submersible Pumping Wells
M. Vazquez, A. Suarez, H. Aponte, PDVSA Services
- 15:45 Root Cause Failure Analysis of Electric Submersible Pumping Systems
Andy Limanowka, Sid Degen, Centrilift **Michael Voytechek**, Shell Canada
- 16:15 **BREAK OUTS:**
Equipment Failures – **Carl Cox**
VFD's – **Noel Putscher**
Cables – **Mark Garrett, Mike Parker**
Gas Handling – **Jim Lea**
Heavy Crude – **Mike Smith, Jack Blann**

18:00 – 19:30 **COCKTAIL PARTY**



**1999 ESPWORKSHOP
AGENDA**

Friday, April 30, 1999

FIELD HISTORIES

SESSION V - CO-CHAIRS: NOEL PUTSCHER & MARK JOHNSON

- 08:30 Downhole 3 Phase Separation Utilizing Both ESP and PCP Pumping Systems
T. L. Danyluk, R.C. Chachula, PanCanadian Petroleum Ltd.
S.C. Solanki, C-FER Technologies, Inc.
- 09:00 Practicalities and Economics of Operating a Downhole Oil-Water Separation System
Chris Shaw, Bernie Fay, Centrilift
- 09:30 Performance of ESP's Operating in ONGC, India Analyzed
T. P. Ramachandran, S.K. De and M.K. Bhatta, Oil & Natural Gas Corporation Limited
- 10:00 Considerations for E.S.P. Usage in CO2 Floods
Forrest Collier, Mirick Cox, Mobil, Jeff Dwiggins, Robert Lannon, ESP
- 10:30 Subsea Artificial Lift - The Advantages of Subsea Boosting
Jan Elde, Framo Engineering AS
- 11:00 **BREAK**
- 11:30 World's Longest Sub-Sea Tie Back of an Electrical Submersible Pump
S. J. Harrall, D. Nevelsteen, Mike Robinson, Shell UK Exploration & Production
- 12:00 MPU ESP Troubleshooting Method
John Ketchum, British Petroleum
- 12:15 ESP's: On and Offshore Problems and Solutions
James F. Lea, Amoco RPM / EPTG, John L. Bearden, Centrilift
- 12:45 **Closing Comments**
BOX LUNCH

Not for presentation: Efficient ESP Model Selection Program in Arco Indonesia
M. A. Muiz, Arco Indonesia