PETROPHASE 2018

POSTER PRESENTATIONS

#	POSTER TITLE	PRESENTING AUTHOR	AFFILIATION	CATEGORY
E - P1	Molecular Composition and Structure of Asphaltene Compounds that Disproportionally Contribute to Emulsion Ageing and Stability	Chacón-Patiño, Martha	Ion Cyclotron Resonance	Emulsions
E - P2	Process Chemistry Role in Steam Cracker Fouling Mitigation	Aluri, Bhaskar Reddy	SABIC	Emulsions
E - P3	Break up of Crude Oil- in- Water Emulsions by Graphene Oxide and amphipathic graphene oxide particles	Contreras Ortiz, Silvia Nathalia	Universidad Industrial de Santander	Emulsions
E - P4	The Microfluidic Extensional Flow Device: A New Microfluidic Platform For Emulsion Studies	Goel, Sachin	University of Toronto	Emulsions
E - P5	Study of the effect of natural products on water in oil emulsions of heavy oil	Pereira, Laine	Federal University of Espirito Santo	Emulsions
E - P6	Novel demulsifiers based on carboxyacrylic copolymers for heavy crude oils	Zamora, Edgar	Instituto Mexicano del Petróleo	Emulsions
E - P7	METTLER TOLEDO ParticleTrack□ and ParticleView□ - Robust Probe Based Technologies Suitable for Understanding and Optimizing Flow Assurance, Emulsions, and Drilling Mud Applications in the Lab and in the Field	Pandey, Anjan	METTLER TOLEDO AutoChem Inc	Emulsions
E - P8	Effects of pH and Temperature on the Phase Transition and Elasticity of Asphaltene Langmuir Films	Gonçalves, Ronaldo	Centro Universitario FEI	Emulsions
E - P9	Impact of surfactant and wax type on W / O emulsion rheology	Freitas, Gizele	Programa de Engenharia Química/COPPE/UFRJ	Emulsions
E - P10	Nanocellulose as inhibitor of w/o emulsions	Gonzalez_Bernal, Maria Mercedes	Universidad Industrial de Santander	Emulsions
E - P11	FTICR MS as Problem Solver in Large Scale Flow Loop Separation	Ishizawa, Claudia	Shell International E&P	Emulsions
E - P12	Prediction of Interfacial Tension for new Mexican asphaltene models using Dissipative Particle Dynamics	LIRA-GALEANA, CARLOS	IMP	Emulsions

E - P13	Simulation of emulsion stability in heavy and extra-heavy oil/water systems using non-ionic surfactants	LIRA-GALEANA, CARLOS	IMP	Emulsions
E - P14	Development of novel silicon-free defoamers based on alkyl copolymers for heavy crude oil	López Ortega, Alfonso	Instituto Mexicano del Petróleo (IMP)	Emulsions
E - P15	Interfacial Visco-Elasticity of Petroleum Amphiphilic Films Measured by Dynamic Tensiometry	Gonçalves, Ronaldo	Centro Universitario FEI	Emulsions
E - P16	FT-ICR MS Analytical Approach for Efficient ASP Flooding Formulations Based on Crude Oil Composition: A Field Case Application	Rojas, Fernando	Instituto Colombiano del Petróleo	Emulsions
E - P17	Addition of Nonendogeneous Paraffins in Brazilian Crude Oils and their Effects in Emulsions Stability, Asphaltene Solvency and Interfacial Behavior	De Sant'Ana, Hosiberto	Universidade Federal do Ceará	Emulsions
FA-P1	Crude oil blend compatibility and flow assurance problems: wax and asphaltene precipitation	De Sant'Ana, Hosiberto	Universidade Federal do Ceará	Flow Assurance
FA-P2	Asphaltene Inhibitor Testing Evaluated Through Different Methods	Chao, Kung-Po	Baker Hughes, a GE Company	Flow Assurance
FA-P3	Rheological study of gas hydrate formation; Effects caused by the addition of asphaltene and gas condensate to the water-in-oil emulsions.	Barrientos Sandoval, Gustavo	Federal University of Rio de Janeiro	Flow Assurance
FA-P4	Effects of Shear and Roughness on Paraffin Deposition in Cold Finger Tests	Golchha, Abhishek	Baker Hughes, a GE Company	Flow Assurance
FA-P5	Achieving Cold Flow Conditions for Waxy Mixtures While Minimizing Solids Deposition	Haj-Shafiei, Samira	University of Calgary	Flow Assurance
FA-P6	The Effect of an Acrylic Polymer Wax Control Additive on Wax Crystal Morphology Revealed by Cross Polarized Microscopy	Sarginson, Helen	Croda	Flow Assurance
FA-P7	Evaluation of the crystallization and deposition of waxes in crude oil	Lucas, Elizabete	Universidade Federal do Rio de Janeiro	Flow Assurance

FA-P8	Novel Paraffin Additives as Pour Point Depressants and Paraffin Inhibitors in Heavy Oils	Scranton, Stacy	BYK USA Inc.	Flow Assurance
FA-P9	Influence of the chemical structure of polymer additives on the pour point of crude oils	Lucas, Elizabete	Universidade Federal do Rio de Janeiro	Flow Assurance
FA-P10	Simultaneous Determination of Wax in Petroleum by 2-Dimensional Liquid Chromatography	seo, jin-seok	SK Inovation	Flow Assurance
FA-P11	Mechanistic Investigation and Modeling of Asphaltene Deposition in Wellbore	Rajan Babu, Narmadha	Rice University	Flow Assurance
FA-P12	STUDY OF TRANSIENT FLOW DURING START-UP UNDER CONSTANT PRESSURE OF A GELLED WAXY CRUDE OIL	Van Der Geest, Charlie	University of Campinas	Flow Assurance
FA-P14	New Application of DSC Method for High-API Crudes Density-Driven WAT Procedure	Cameron, Ceallach	Nalco Champion an Ecolab Company	Flow Assurance
FA-P15	Prevention and Control of Sulphate Scaling using Copolymers and Terpolymers Containing Amide, Carboxylic and Sulfonic Groups	Carvalho, Suzanny	IMA-UFRJ	Flow Assurance
FA-P16	Solids Deposition from Multicomponent WaxSolvent Mixture using a Cold Finger Apparatus During Hot and Cold Flow Conditions	Haj-Shafei, Samira	University of Calgary	Flow Assurance
FA-P17	Asphaltene Inhibitor Selection and Development Strategies	Gon, Saugata	Nalco Champion	Flow Assurance
FA-P18	Alternative Strategies for Paraffin Deposition Studies in presence of brine	Gon, Saugata	Nalco Champion	Flow Assurance
FA-P19	Advance Prediction and Mitigation of Asphaltene Deposition during Multiphase Flow across the Wellbore: Modelling and Field Studies	Hassanpouryouzband, Aliakbar	Hydrafact Company	Flow Assurance
FA-P20	Asphaltenes Removal using Terpene Microemulsions	Trabelsi, Siwar	Global Research & Innovation Center	Flow Assurance
FA-P21	Paraffinic Wax Mitigation Effect of Brine on Crystal Modifiers & Dispersants	Kar, Taniya	Reservoir Engineering Research Institute	Flow Assurance

FA-P22	Lowering the Pour Point of Paraffin Inhibitors for Cold Climate Applications	Lan, Qiang	Halliburton	Flow Assurance
FA-P23	Influence of Asphaltene Polarity on Crystallization and Gelation of Waxy Oils	Lu, Yingda	China University of Petroleum-Beijing	Flow Assurance
FA-P24	Electrical Treatment of Waxy Crude Oil to Improve Its Low-temperature Flowability	Lu, Yingda	China University of Petroleum-Beijing	Flow Assurance
FA-P25	Yield Stress and Apparent Wall Slip Phenomenon in Waxy Gels	Oliveira Marinho, Thiago	Federal University of Rio de Janeiro	Flow Assurance
FA-P26	Influence of Wax Chemical Structure on Waxy Oils Yield Stress and Elastic Modulus	Oliveira Marinho, Thiago	Federal University of Rio de Janeiro	Flow Assurance
FA-P27	Yield stress measurement of a waxy gelled crude oil	Rondon, Marianna	Total E&P	Flow Assurance
FA-P28	Strategy to Evaluate Chemicals Flow Behavior for Oil Field Injection: A Flow Assurance Approach	Oliveira Marinho, Thiago	Federal University of Rio de Janeiro	Flow Assurance
FA-P29	Phase Equilibria Study of a Recombined Oil from the Rift Section of Santos Basin	Souza, Renan	University of Campinas	Flow Assurance
FA-P30	Asphaltene Stability in a Recombined Oil from Santos Basin Due to CO2 Injection	Souza, Renan	University of Campinas	Flow Assurance
FA-P31	Investigating the Effect of Fluid Flow Models on Multiphase Wax Deposition Modelling	Zhang, Xiaohong	KBC Advanced Technologies Ltd	Flow Assurance
FA-P32	Novel Wax Inhibitor Additives to Address Wax Deposition Challenges with Production and Transportation of Tough-to-Treat Heavy Wax Containing Crude Oils	Xie, Xiaoan	SUEZ Water Technologies and Solutions	Flow Assurance
PC-P1	A mechanistic study of asphaltenes dissolution in aromatic solvents using a pack-bed microreactor with in situ spectroscopy	Chen, Weiqi	New York University, Tandon School of Engineering	Petroleum Chemistry
PC-P2	Comprehensive Characterization of Petroleum Acids by Distillation, Separation and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry	Clingenpeel, Amy	ExxonMobil	Petroleum Chemistry
PC-P3	Investigation of Molecular Association Mechanisms and the Fast Screening of	Feilberg, Karen L	Technical University of Denmark	Petroleum Chemistry

	Petroleum Fluid Constituents Investigated by Infrared Spectroscopy			
PC-P4	Asphaltenes model solution behavior: precipitation, interfacial tension and emulsion stability	De Sant'Ana, Hosiberto	Universidade Federal do Ceará	Petroleum Chemistry
PC-P5	Separation and Quantification of Olefins and Diolefins in Cracked Petroleum Streams Using High Performance Liquid Chromatography	Heshka, Nicole	Natural Resources Canada	Petroleum Chemistry
PC-P6	Combining multiscale neutron scattering and simulation for determination of asphaltene aggregate structure	Headen, Thomas	Rutherford Appleton Laboratory	Petroleum Chemistry
PC-P7	Comparative Study of Asphaltene Subfractions: Structural Characterization, Self-aggregation, and Stability Behavior	MORANTES, LINA	Universidad Industrial de Santander	Petroleum Chemistry
PC-P8	Comprehensive Compositional and Structural Comparison of Coal and Petroleum Asphaltenes based on Extrography Fractionation Coupled with Fourier Transform Ion Cyclotron Resonance MS and MS/MS Analysis	Niles, Sydney	National High Magnetic Field Lab - FSU	Petroleum Chemistry
PC-P9	Online Gel Permeation Chromatography / Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Probing Aggregation Tendencies in Asphaltenes and Petroleum Products	Putman, Jonathan	National High Magnetic Field Laboratory	Petroleum Chemistry
PC-P10	Evaluation of Time Effects on Precipitated Asphaltene Characteristics Using Atmospheric Pressure Photoionization (APPI) and Laser Desorption Ionization (LDI) Coupled to Magnetic Resonance Mass Spectrometry (MRMS)	Rogel, Estrella	Chevron Energy Technology Company	Petroleum Chemistry
PC-P11	Quantitative Stability Analysis of Crude and Heavy Fuel Oils: Utilizing Light Scattering to Analyze Asphaltene Dispersions and Demulsification Mixtures	Vanden Eynden, Matt	Formulaction, Inc.	Petroleum Chemistry

PC-P12	CID fragmentation studies of asphaltenes at different precipitation times using Ultrahigh Resolution Mass Spectrometry	Witt, Matthias	Bruker Daltonik GmbH	Petroleum Chemistry
PC-P13	Study on Asphaltene Dispersion using Benzene Sulfonic Acids of Different Molecular Weight	Delgado, Jose	Universidad de Los Andes	Petroleum Chemistry
PC-P14	Vacuum Photoionisation TOF-MS: A technique to analyze complex mixtures such as crude oil on-line and in real time	Ehlert, Sven	Photonion GmbH	Petroleum Chemistry
PC-P15	Analysis of hydrocarbon biomarkers in petroleum by ion mobility mass spectrometry	Han, Yehua	China University of Petroleum, Beijing	Petroleum Chemistry
PC-P16	Utilizing Molecular Characterization in Refining Models	Hou, Zhen	Aspen Technology, Inc.	Petroleum Chemistry
PC-P17	Development of coarse-grained SAFT-gamma force fields for the molecular simulation of asphaltenes	Jimenez Serratos, Guadalupe	Imperial College London	Petroleum Chemistry
PC-P18	Fractionation of the problematic asphaltenes by a combined QCMD - FT-ICR-MS approach	Kahs, Tim	New York University Abu Dhabi	Petroleum Chemistry
PC-P19	Evaluation of synthesized molecules based on cardanol and styrene on the stability of asphaltenes with and without a flocculant agent (n-heptane)	Lucas, Elizabete	Federal University of Rio de Janeiro	Petroleum Chemistry
PC-P20	Dual-channel GC×GC-FID for routine TPH analyses	Edwards, Matt	SepSolve Analytical	Petroleum Chemistry
PC-P21	Enhanced workflows in GC×GC data processing	Edwards, Matt	SepSolve Analytical	Petroleum Chemistry
PC-P22	Fast and efficient group-type analysis by GC×GC	Edwards, Matt	SepSolve Analytical	Petroleum Chemistry
PC-P23	Asphaltene Aggregates in Solutions Both Using Small-Angle and Ultra-Small-Angle X-ray Scattering: the Solvent Effect of Toluene, Pentane, and Bromobenzene	Morita, Takeshi	Chiba University	Petroleum Chemistry
PC-P24	Chemical Characterization of Asphaltenes from Colombian Crude Oils. A work class project.	Poveda-Jaramillo, Juan Carlos	NMR Laboratory/Universidad Industrial de Santander	Petroleum Chemistry

PC-P25	Concentration and Temperature Effects on the Aggregation of Colombian Asphaltenes Followed by Diffusional Ordered NMR Spectroscopy	Poveda-Jaramillo, Juan Carlos	NMR Laboratory/Universidad Industrial de Santander	Petroleum Chemistry
PC-P26	Chemical modification of asphaltenes samples using low energy methane and argon plasmas.	Poveda-Jaramillo, Juan Carlos	NMR Laboratory/Universidad Industrial de Santander	Petroleum Chemistry
PC-P27	Fractionation and Structural Characterization of Asphaltenes from Colombian Heavy Crude Oil	Poveda-Jaramillo, Juan Carlos	NMR Laboratory/Universidad Industrial de Santander	Petroleum Chemistry
PC-P28	Simultaneous identification and structural features of Nickel and Vanadyl petroporphyrins by Ion Mobility Spectrometry and Electron Transfer MALDI-FTICR mass spectrometry	Ramirez-Pradilla, Juan-Sebastian	Santander	Petroleum Chemistry
PC-P29	Structural Characterization of Asphaltenes Obtained from Asphaltites of two Different Geographical Regions of Colombia	Poveda-Jaramillo, Juan Carlos	NMR Laboratory/Universidad Industrial de Santander	Petroleum Chemistry
PC-P30	Simultaneous Detection of Vanadyl, Nickel, Iron, and Gallium Porphyrins in Sediments by Positive-ion ESI FT-ICR MS	Shi, Quan	China University of Petroleum, Beijing	Petroleum Chemistry
PC-P31	Untangling the Chemical Details of North Sea Crude Oil	Sundberg, Jonas	Technical University of Denmark	Petroleum Chemistry
PC-P32	Detection of Asphaltene Destabilization and Cluster Formation through Heithaus Based Titration Coupled with Light Scattering and Additive Performance Using Visual Evidence	Weaver, Carl	Baker Hughes, a GE company	Petroleum Chemistry
PC-P33	Cracking Behavior of Heavy Petroleum Polar Species in Collision Induced Dissociation (CID) Mass Spectrometry Analysis and Thermal Visbreaking	Zhang, Linzhou	China University of Petroleum, Beijing	Petroleum Chemistry
PC-P34	Unconventional Methods for the Demetalation of Bitumen	Chauhan, Garima	University of Alberta	Petroleum Chemistry

POSTER PRESENTATIONS

PP-P1	Solid-Liquid and Vapor-Liquid Equilibria of BTEX Compounds in Methane and Ethane Mixtures at LNG Conditions	Al Ghafri, SAIF Z	University of Western Australia	Petroleum Properties
PP-P2	Experiments and Numerical Modeling of the Interaction and Partial Miscibility of Gas Condensate Reservoir Fluids and Oil Based Mud	Bon, Jan	Petrolab Australia Pty. Ltd.	Petroleum Properties
PP-P3	Comparison of interfacial tensi□n reduction in toluene/water system by colombian crude oil and its interfacially active components	Cañas Jaimes, David	Universidad Industrial de Santander	Petroleum Properties
PP-P4	Synthesis and characterization of model molecules to evaluate the onset of asphaltenes precipitation in crude oil	Lucas, Elizabete	Universidade Federal do Rio de Janeiro	Petroleum Properties
PP-P5	Evaluation of the Hirschberg Method and the CPA Equation of State in Modeling the Asphaltene Precipitation in Live Oils	Nascimento, Fabio	Universidade Federal da Bahia	Petroleum Properties
PP-P6	Prediction of asphaltene precipitation due to CO2 injection based on the solubility parameter difference: The effect of the oil heavy-fraction characterization method	Nascimento, Fabio	Universidade Federal da Bahia	Petroleum Properties
PP-P7	Modeling of asphaltene precipitation during oil depletion based on the solid-fluid model: The effect of the number of components on the characterization of the oil heavy-fraction	Nascimento, Fabio	Universidade Federal da Bahia	Petroleum Properties
PP-P8	CPA Modeling of the Phase Behavior of Bitumen Solvent Mixtures	Yarranton, Harvey	U Calgary	Petroleum Properties
PP-P9	Re-equilibrium of Asphaltene By Re-pressurizing After Precipitation	Yonebayashi, Hideharu	INPEX Corporation	Petroleum Properties
PP-P10	Crude oil characterization using coarse-grained molecular dynamics simulations	Zheng, Lingru	Imperial College	Petroleum Properties
PP-P11	Development of Supercritical Miscible System of Crude oil Fractions	Chen, Zhentao	China University of Petroleum-Beijing	Petroleum Properties
PP-P12	Detection of Flocculation Onset for an Algerian Asphaltene and its Subfractions	Djendara, Ali cherif	université de mascara,algerie	Petroleum Properties

PP-P13	Fractal Dimensions of Asphaltene Flocs from n-Heptane Diluted Bitumen	Duran, Jairo	University of Calgary	Petroleum Properties
PP-P14	Investigating Liquid 1-Methylnaphthalene Structure to Understand Self-Aggregation Behavior of Polyaromatic Hydrocarbons	Rahman, Rizwanur	University of Utah	Petroleum Properties
PP-P16	The Effect of Polydispersity and Amphiphiles on Asphaltene Stability	Fávero, Cláudio Vilas Bôas	The University of Michigan	Petroleum Properties
PP-P17	Petroleum Characterization Based on Defined Chemical Components	Gerek Ince, Nevin	SimSci / AVEVA Group plc.	Petroleum Properties
PP-P18	Liquid-Phase TEM Imaging and EDS Analysis of Diluted Bitumen and Asphaltene Solutions	Hoepfner, Michael	University of Utah	Petroleum Properties
PP-P20	WAG Injection Cycle Optimization using Genetic Algorithms and Compositional Reservoir Simulation	Junior, Flavio	Universidade Federal do Rio de Janeiro	Petroleum Properties
PP-P21	Study of the treatment of water-based drilling fluids waste	Lacerda Jr., Valdemar	Federal University of Espirito Santo	Petroleum Properties
PP-P22	CG Simulations of Large-scale Asphaltene Crude Systems based on the SAFT-□ Mie force field	Law, Jason	Imperial College London	Petroleum Properties
PP-P24	Another insight View on HP/HT Asphaltene Stability Measurement in the presence of Asphaltene Inhibitors	Pfeiffer, Jens	PSL Systemtechnik GmbH	Petroleum Properties
PP-P25	Effect of Asphaltenes Composition in Aggregation Process Using Asphaltenes Solubility Class Index (ASCI) Test and FT-ICR-MS	Rojas, Fernando	Instituto Colombiano del Petróleo	Petroleum Properties
PP-P26	Investigation of the Asphaltene Precipitation Mechanism in Naphtha-Diluted Bitumen Using USAXS and SEM/FIB	Yuan, Yang	University of Utah	Petroleum Properties
S-P1	Characterization of Pyrolysis Products from a Green River Oil Shale by NMR Spectroscopy	Ratna, Yeasmin	University of Lethbridge	Shale Oil & Gas
S-P2	Experimental Evaluation of a New Fluid System Combining Cross-linked Polymers and Magnetic Field Application for Loss of Circulation Control	de Andrade, Alex	Rio de Janeiro Federal University	Shale Oil & Gas

S-P3	Magneto-rheology Fluids for Mud Losses Control in Fractured Reservoir: Empirical Yield Stress Model	de Andrade, Alex	Rio de Janeiro Federal University	Shale Oil & Gas
UF-P1	Laser Heated and Laser Measured Oil Fouling Thermal Probe	Holt, Chris	Phase Advanced Sensor Systems Corp.	Upgrading & Fouling
UF-P2	Asphaltene and Inorganic Solid Interactions in the Asphaltene Destabilization Process	Kong, Weiyi	University of Utah	Upgrading & Fouling
UF-P3	Phase equilibrium measurements and modelling of glycol + water + natural gas systems for the design of subsea dehydration units	Kruger, Francois	Technical University of Denmark	Upgrading & Fouling
UF-P4	Asphaltene Fractionation by Column Chromatography	Morimoto, Masato	National Institute of Advanced Industrial Science and Technology	Upgrading & Fouling
UF-P6	Understanding the correlation between asphaltene deposition and corrosion of structural alloys	Subramani, Velu	BP Products North America Inc.	Upgrading & Fouling
UF-P7	Study of the behavior of 5-membered ring naphtheno-aromatic compounds at thermal cracking conditions	Tannous, Joy	University of Alberta	Upgrading & Fouling
UF-P8	Foulant Coke: A Spectrum	Shank, Roxanne	Clean Harbors	Upgrading & Fouling
UF-P9	Plausible Pathway to meet IMO 2020 Global Sulfur Cap	Volk, Michael	University of Tulsa	Upgrading & Fouling
UF-P10	Novel Antifoulant Effective for Mitigation of Severe Crude Unit Fouling When Processing Unconventional Tight Oil Blends	Yu, Greg	SUEZ	Upgrading & Fouling
UF-P11	Preparation of Mesocarbon Microbead (MCMB) from Low Temperature Coal Tar Pitch and its Supercritical Fluid Extraction Fractions	Zhao, Suoqi	China University of Petroleum, Beijing	Upgrading & Fouling