

2017 Spring & 13th GCPS Poster Sessions

Monday, March 27, 2016, 5:00 PM - 7:00 PM - Exhibit Hall 3, Henry B. Gonzalez Convention Center

53 - 2017 Spring Meeting Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
0	Process Safety Problems Caused By Hydrate Formation in Deepwater Production Operations	Susana	Leon-Caceres	53a
1	Comprehensive Review on Hazards Related to Lithium-Ion Batteries Technology	Harold U.	Escobar-Hernandez	53b
2	Theoretical Evaluation of the Reactivity for Hydroxylamine System using a Kinetic Model Approach	Stefany C.	Lombana	53c
3	Application of the Density Functional Theory (DFT) to Study the Decomposition Pathway of Nitroarenes	Ingry	Ruiz	53d
4	Enhanced Distillation Column By Modifying Column Internal	Van Duc Long	Nguyen	53e
5	An Overview of Current Status of Enzymatic Conversion of Carbon Dioxide	Van Duc Long	Nguyen	53f
6	Bioelectrochemical Detection of Endocrine Disrupting Compounds	Ariel	Furst	53g
7	Production of Hydrogen By Methane Decomposition Using Fe-Supported Alumina Catalysts	Megumu	Inaba	53h
8	Development of CuCl-Supported Nanoporous Material Composites for Selective Adsorption of Carbon Monoxide	Kanghee	Cho	53j
9	Compressibility Determination By Volumetric Property Measurements: A Non-Burnett Technique of Estimating Virial Coefficients for Pure Substances	Akanni S.	Lawal	53k
10	Everything You Want to Know about the Van Der Waals Cubic Equations of State without Asking	Akanni S.	Lawal	53q
11	Progression of Volume-Shift Concepts As Unreliable Remedy for Predicting Accurate Liquid Volumes from the Van Der Waals Cubic Equations State	Akanni S.	Lawal	53s
12	Calcium Removal for the Opportunity Crude Using the Deritives of Pyruvic Acid	Dong Woo	Cho	53l
13	Transient Computational Fluid Dynamics Models Applied to Multi-Point Flare Applications	Addison	Cruz	53n
14	Characteristics of the Hydrocracked Products and Asphaltene with Conversion in a Vacuum Residue Hydrocracking with MoS ₂ Dispersed Catalyst	Suk Hyun	Im	53r
15	Study on the Adsorptive Removal of Sulfur Compounds Present in Fuel	Biswajit	Saha	53t
16	Purification of Styrene from the Styrene/Ethylbenzene Mixture By a New Technique Combining Distillation and Crystallization	Lie-Ding	Shiau	53u
17	Study on the Removal Efficiency of Drugs Pollution in Water Environment By Membrane Separation Technology	Sijie	Ge	53v
18	Effect of Graphene Oxide and ZIF 301 into a MMM for CO ₂ Separation Enhancement	Mohammed	Ba-Shammakh	53w

53 - 2017 Spring Meeting Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
19	The Future of Oil and Gas	Stefaan	Simons	53x
20	Carbon Nanotubes for Environmental Applications: Solid-Phase Extraction and Gas Sensing for Chlorinated Phenolic Compounds	Walter	Den	53z
21	An Experimental Analysis of Photocatalytic Degradation for Pharmaceutical Personal Care Products Using Rhodamine B As a Surrogate	Abibat	Agbaje	53aa
22	Can Kriging Replace ODE-Based Kinetic Modeling ? a Hydrocracking Case Study	Benoit	Celse	53ab
23	Understanding the Corrosion Problems in Petrochemical Industries: An Approach	Yogesh	Kumar	53ac
24	Coatalloy TM Barrier Coating for Reduced Coke Formation in Steam Cracking Reactors: Experimental Validation and Simulations	Hugues	Chasselin	53ad
25	Cracker Energy Efficiency Improvements - Sitewide Holistic Approach	Mahesh Kumar	Srinivas	53af
26	Hexsol Innovative 'extra Extra Strong' TLE	Luca	Zanardi	53ae
26	Hexsol Innovative 'extra Extra Strong' TLE	Matteo	Longhi	53ae
28	Facility Layout Optimization of LNG-FSRU System	Chenxi	Ji	53ag
29	Hybrid Elastomer Nanocomposites for Oilfield Applications	Rostyslav	Dolog	53aj
30	Compressor Fouling Monitoring Methods Identify Fouling Mechanism Changes to Direct Mitigation Performance Improvement	Hua	Mo	53ak
31	PSM Guidance Using a Risk Based Process Safety Approach	Swarup	Bade	53al
32	The Evolution of Light Ends Fractionation Fouling Control: From Mechanism to Mitigation, Three Decades of Dramatic Improvement	David	Smith	53am
33	Economics of Hydrogen Purification in an Ethylene Plant	Ian	Glasgow	53an
34	Thermodynamic Parameter Regression Using Open Source Optimizers	Jonathan D.	Mendenhall	53aq
35	Latest Technology of Double Disc Gate Valves for Main Transfer Line and Decoke Line in the Ethylene Service	Ruediger	Klein	53ar
36	Studying Radiative Heat Transfer Using Computational Fluid Dynamics Under Oxy-Combustion Environments of Coal and Biomass Blends	Niveditha	Krishnamoorthy	53as

58 - Process Development Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
37	Process Intensification in the B&p Littleford Plow Mixer	Michael A.	Smith	58a
38	Thermodynamic Modeling of Aqueous Nickel Nitrate-Nickel Chloride-Nickel Sulfate System with Electrolytes NRTL Model	Yuan	Li	58b
39	Thermodynamic Modeling of Ion Adsorption in Capacitive Deionization Cell Units with Enrtl Model	Yue	Yu	58c
40	Thermodynamic Modeling of the Aqueous Copper(II) - Nitrate - Chloride - Sulfate System with the Electrolyte-NRTL Model	Benjamin	Caudle	58d
41	Careers in Process Development: How Aiche Can Help!	Joseph B.	Powell	58e
42	Chemical Engineering's Role in the Upcoming Energy Transition	Joseph B.	Powell	53ai
43	Optimal Design of Mixed Refrigerant System in Ethylene Plants for Maximum Energy Savings	Cuixia	Xu	58f

54 - Big Data Analytics Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
44	Regression Strategies for Large Data Sets (poster version)	James	Cross	54a
45	Leveraging Advanced Analytics to Extract Business Value from Internet of Things Investments (poster version)	Waseem	Shaik	54c
46	The Canopy Platform for Process Monitoring and Optimization (poster version)	Tim	Diller	54d
47	Using Analytics for Process Safety (poster version)	Jim	Petrusich	54e
48	Making Cognitive Solutions Real Today -Stories and Examples (poster version)	Paul	Frangoulis	54f
49	Practical Challenges and Opportunities in Applying Multivariate Methods in an Online Context (poster version)	Giles	Laurier	54g
50	Hypothesis Investigation without a Designed Experiment	Jenny	Chaves	54h
51	Determining Product Specification for Count Data	Swhee-Teng	Chin	54i
52	EMI Command Center	Chaitanya	Khare	54j
52	EMI Command Center	James	Peters	54j
54	Data-Driven Root Cause Analysis for Event Investigation Followed By Real-Time Monitoring and Prevention (poster version)	Michael	Harmse	54k
54	Data-Driven Root Cause Analysis for Event Investigation Followed By Real-Time Monitoring and Prevention (poster version)	Mike	Noskov	54k
56	Real-Time Performance Monitoring and Diagnostics of Rod Pump System for Oil Elevation Using Streaming Dynamometer Card Data (poster version)	Wei	Dai	54l

60 - Upstream Engineering and Flow Assurance Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
57	The Effect of Stirring on Gas Hydrate Formation in High Pressure Reactor Systems	M. Fahed	Qureshi	60a
58	Prevention of Gas Hydrates in Offshore Subsea Lines Using Pyrrolidinium Based Ionic Liquids	M. Fahed	Qureshi	60b
59	Hydrate Formation and Dissociation in Qatar Sea Water in the Presence of Imidazolium Based Ionic Liquids and Synergents	M. Fahed	Qureshi	60c
60	Hydrate Formation Experiments in a Lab-Scale Vertical Flowloop	Thomas	Charlton	60d
61	Reduction of Hydrate Film Growth Rate and Cohesive Force By Surface Active Components in Crude Oil	Shane A.	Morrissy	60e
62	A New Transient Framework for Assessing Hydrate Formation	Bruce W. E.	Norris	60f
63	Rheological Characterisation of Hydrate-in-Oil Slurries	Yahua	Qin	60g
64	Modelling Salts Effect on Hydrate Inhibition with CPA-Electrolyte and Pseudo-Salt Approach with Excess Gibbs Energy Mixing Rules	Xiaohong	Zhang	60h

55 - Emerging Technologies in Clean Energy Poster Session

BOARD NUMBER	Abstract Title	First Name	Last Name	Paper Number
65	Catalytic Reduction of CO2 into Solar Fuels Via Ferrite Based Redox Reactions	Rahul	Bhosale	55a
66	Solar Hydrocarbon Fuel Production from H2o and CO2 Via Ceria Based Catalytic Thermochemical Cycles	Rahul	Bhosale	55h
67	Innovation- a Way to Optimize Investment, Utilization and Energy	Maddala V.	Bhanumurthy	55b
68	Resolve Blackpowder in Sales Gas with Environmental Freindly Self Cleaning Filtration	Maddala V.	Bhanumurthy	53y
69	Ultra Sensitive Probing of the Local Electronic Structure Based on State-of-the-Art Transition-Edge Sensor (TES) Technology and Soft X-Ray Spectroscopy	Dennis	Nordlund	55c
70	Ultrasensitive Probing of the Local Electronic Structure of Nitrogen Doped Carbon and Its Applications to 2D Electronics, Catalysis and Bio-Physics.	Dennis	Nordlund	53o
71	Ultrasensitive Probing of Local Electronic Structure in the Soft X-Ray Regime	Dennis	Nordlund	53p
72	Application of a Solide Oxide Fuel Cell for ICT Sector	Marco	Ferraro	55e
73	DOWN-FLOW Bubble Columns with MICRO-Bubbles for Process Intensification	Freddy	Hernandez	55f
74	Modeling for the Scale-up of an Ultracapacitor for Energy Storage Applications	Sung June	Park	55g