Poster Number	Abstract Title	First Name	Last Name
	Session 71: Poster - Process Safety		
1	Anatomy of a Potential LNG Incident	Fabiana	Weber
2	Application of Risk Prioritization Matrix of Nonconformities in the Offshore Industry	Claudia	Morgado
3	Application of Risk Prioritization Matrix of Nonconformities in the Offshore Industry	Tatiana	Cordeiro
4	Experimental Study on Gas Explosion in an Obstructed Confined Pipe	Rafiziana M.	Kasmani
5	Uncertainty Analysis for LOPA in the Offshore Industry	Sungteak	Kim
6	Quantitative Risk Assessment (QRA) with the Inclusion of Human and Organizational Factors and Maintenance	Mehmood	Ahmad
7	Implementing SIS Metrics for Life Cycle Management - Part 1: Proof Testing	Keith	Lapeyrouse
8	Dust Explosion Kinetics	Russell A.	Ogle
9	Vapor Cloud Hazards of Enclosed Liquid Flammable Processes	Kollin	Kenady
10	Comparison of Results of the Classified Areas of a Typical Hydrogen Generation Unit (GHU) Using the Standards NFPA 497 and API RP 505	Gisele	Nascimento
11	The Requirements and Tools to Treat Safety Process Risk Caused By Organizational Changes	Salvador	Ávila Filho
12	Using Unrealistically Optimistic Failure Data: Is It Ethical?	Iwan	van Beurden
13	Using Unrealistically Optimistic Failure Data: Is It Ethical?	Loren	Stewart
14	Dynamic Simulation As a Robust Tool for Optimum Flare Systems Design	Christopher	Ng
15	Dynamic Simulation As a Robust Tool for Optimum Flare Systems Design	Faraz	Khan
16	Dynamic Simulation As a Robust Tool for Optimum Flare Systems Design	Jim	Bridgett
17	Best Practice MOC and Pssr 2014	Mike	Bearrow
18	Audit Management Best Practice – Seek and Ye Shall Find	Mike	Bearrow
19	Application of Risk Analysis in Pilot Plants and Research Labs	Kabier	Moideenkutty
20	Integrating Cyber Security Risk Assessments into the Process Safety Management Work Process	Harold W	Thomas
21	Integrating Alarm Management into Your PHA and LOPA Processes	Todd	Stauffer

22	High Integrity Pressure Protection Systems: Design, Analysis, Justification and Implementation	Charles	Fialkowski
23	Predicting Far Field Blast Overpressures: An Evaluation of Enhanced Input Parameters for FLACS	Meiqian	Wang
24	The application of the bifunctional environmental deodorizer for sulfur and sour water in SINOPEC TIANJIN	Aijun	Wang
25	Safety-Centered Site Master Planning	Steve	Clepper
26	Exothermal test for green plastics materials by DSC	Jao-Jia	Horng
27	The Studies of Flame Propagation Simulation in the Municipal Pipeline	Fenglei	Han
28	The Study on the Vulnerability of Urban Oil and Gas Pipeline Network of the Mechanism of Action	Su	Hu
29	Application of HAZOP Study On Some Butyl-Octyl Alcohol Plants	Jiulai	Huang
30	Critical Success Factors for Effective PHAs	Arlyn	Poppen
31	Security Risks and Countermeasures of Pesticide Formulations Production Process	Wenqiang	Wan
32	Incorporate Safety during Process Design	Krishnarao	Guntu
33	Study on Application of LOPA in HAZOP on China Refinery Design	Mingfeng	Cai
34	Field Application of Risk-Based Approach for Fatality Prevention	Alfonsius	Ariawan
35	PROBLEMS AND RESOLUTIONS OF SIS ENGINEERING APPLICATION	Ruoqing	Wang
36	Developing Process Engineers into Effective HAZOP/LOPA Facilitators	Steven T.	Maher
37	Investigation of Self-Ignition Risks of Iron Sulfides in the Sour Crude Oil Storage	Ping	Ping
38	Optimal Sectioning of Hydrocarbon Transport Pipeline By Volume Minimization and Environmental Vulnerability Assessment	Nancy Alejandra	Cano Acosta
39	Assessment of Reliability and Risk at Dynamic Systems: A Discussion of Social-Technical Factors in the Exploration and Production of Oil at Pre-Salt Layer - Brazil	Salvador	Ávila Filho
40	Experiment Study on Acoustic Emission Detection of Internal Leakage of Gas Ball Valves	Guoxing	Han
41	Why Do We Still Have Blast Walls on Offshore Platforms?	Benjamin	Poblete
42	Dynamic simulation of discharge process safety and optimization for multi-stage ground flare	Anfeng	Yu

43	Process Safety in Gas/Oil Transport Implementing Best-in-Class Procedure Management Practices - a Case Study	Blair	Morgan
44	Predicting Thermal Behavior of Chemicals from Molecular Structure	Nadia	Baati
45	Screening Tool for Runaway Reaction Characterization. Optimizing Efforts for Emergency Relief Systems Design	Jordi	Dunjó
46	Facilty Siting Challenges	Sam	Sanati
47	Process Safety in the Midstream Sector Under the Shale and Tight Oil and Gas Boom	Sebastian	Diaz, P.E.
48	Lessons Learned during Air Tightness Testing of Shelter-in-Place Buildings at Chemical Facilities	Gabriel A.	Shelton
49	A Simplified PSM Guidance for Smaller Facilities Using a Risk Based Approach	Swarup	Bade
50	SIS Integrity Assessment of Pipelines Using Bow-Tie and LOPA	Lizhen	Zhang
51	Unlock the Value of Operational Data	Joseph	Stough
52	Unlock the Value of Operational Data	Mei-Li	Lin
53	How to Play a Better Central Role By Blending PSM System into HSE System	Liu	Bin
54	Heat Exchanger Design Parameters Effect on Low Pressure Side Maximum Pressures during a Tube Failure	John	Burgess
55	Research on Security Access Model of Enterprises in Petrochemical Ports	Haoyi	Wang
56	Introduction to Safety Instrumented System Management	Eloise	Roche
57	Safety Integrity Level Sil Assessment about Deepwater Bop System	Suhua	Geng
58	Lessons on Achieving Cost Effective ISA 84 SIS Lifecycle Sustainability	Carolyn	Presgraves
59	Dust Explosion Incident Analysis, Prevention and Control	Ge	Anka
60	The application of the bifunctional environmental deodorizer for sulfur and sour water in SINOPEC TIANJIN Company	Wang	Aijun
	Session 72: Poster - Session Advances in Simulation, Optimization, Modeling, and Control		
61	Synthesis of Efficient Multicomponent Separation Processes	Gautham	Madenoor Ramapriya
62	Importance of Modeling and Simulation in framing a Process Development Career	Joseph B.	Powell

63	Classical PID Control in Presence of Missing Data Using Compressed Sensing Techniques	Satheesh Kumar	Perepu
64	Recent Advances in Unidirectional Communications Technologies	Michael	Firstenberg
65	On Parabolic and Hyperbolic Diffusion Effects during Hybridization Kinetics with Convection in Microfluidic Chamber	Kal Renganathan	Sharma
66	Dynamic Simulation for Poly-Ethylene Process By PC-SAFT Model	Gang (Gary)	Xu
67	Advances in Liquid Level Systems for Process Control Education and Researches	Jietae	Lee
68	Optimal Use of Design Constraints for Efficient System Design	Zeeshan	Farooq
69	Control of Processes Whose Optimal Operating Conditions Are on the Saturation Edge	Jietae	Lee
70	Synthesis and Optimization of Integrated Water and Membrane Network Systems with Multiple Electrodialysis Regenerators	Nielsen	Mafukidze
71	An Effective Synthesis Framework for Integrated Water and Membrane Networks	Esther	Buabeng-Baidoo
72	Effect of the Grid Generation in Numerical Simulation of Spray Granulation Tower	Liuhai	Feng
73	13 Ways through a Firewall: What You Don't Know Will Hurt You	Michael	Firstenberg
74	Optimisation of Refinery Diesel Blending	Shixun	Jiang
75	Electrochemical Reactor Modeling and the Determination of Minimum Operating Parameters for Conductive Paint Antifouling Systems	Malachi D.	Bunn
76	Advanced 3-Phase Flash Computations in the API Tech Data Book 9 Software	Todd J.	Willman
77	A CFD Model-Based Optimization of a Process Burner Geometry	Niveditha	Krishnamoorthy
78	Modeling, Optimisation and Control of Solar Absorption Air-Conditioning System	Simon	Ocheme
79	New Development on Hoist Scheduling for Multi-Stage Material Handling	Honglin	Qu
80	Simultaneous Scheduling of Front End Crude Transfer and Refinery Processing	Jialin	Xu
81	An Optimization Framework for the Day-Ahead Scheduling of District Cooling Systems	Juan P.	Ruiz

82	Optimized Control Strategy of Distillation Column Under Startup and Shutdown	Ziyuan	Wang
83	On-Line Optimal Control of Molecular Weight Distribution in Batch and Semi-Batch Free Radical Polymerization Processes	Navid	Ghadipasha
84	DNA Hybridization on Silica Surface for Gene Chip Design Studied with Molecular Dynamics Simulations	Heng	Ma
85	Structures, Dynamics, and Water Permeation Free Energy Across Bilayers of Lipid a and Its Analog Studied with Molecular Dynamics Simulation	Heng	Ma
86	Lysozyme Adsorption and Desorption on the Azobenzene Self-Assembling Surfaces Studied with Molecular Dynamics Simulations	Symon	Sajib
87	Improving Process Sustainability and Profitability for a Large U.S. Gray Iron Foundry	Prashant	Nagapurkar
88	Improving Process Sustainability and Profitability for a Large U.S. Gray Iron Foundry	Shyam	Paudel
	Session 73: Poster - Emerging Technologies		
89	Catalytic Glycerol Steam Reforming to Hydrogen on Metal-Ceramic Composites	Doohwan	Lee
90	Synthesis and Applications of Nanocoatings	Kal Renganathan	Sharma
91	Overcoming Kinetic Limitations of Cr(VI) Adsorption Onto Biosorbents: Biomas-Magnetite Bionanocomposite	Agnes	Pholosi
92	Ni-Cu Based Nano Composite Alloys for Methanol Electro-Oxidation Reaction	Azeem Ur	Rehman
93	The Enhancement of Liquid-Liquid Extraction Performance By Using Hollow Oil Droplets with Microbubbles As Dispersed Phase	Jianhong	Xu
94	Experimental Investigation of Oil Recovery By Hot Water Followed By Steam Flooding for Lower Fares Heavy Oil	Adel	Elsharkawy
95	Mitigation of the Cytotoxicity of Single-Walled Carbon Nanotubes Utilizing Surface Functionalization and Nontoxic Surfactants	Rebecca	Elsishans
96	Enantioseparation of Phenylethanol By Stripping Crystallization	Lie-Ding	Shiau
97	A Quantum Theoretical Development of Platinum-Ruthenium-Tin Anodic Catalysts fo	Shawn A.	Cole
98	Enhanced Modification Effect of CeO2 on Pt-Pd Binary Catalysts for Formic Acid Oxid	Azeem Ur	Rehman
99	Topology Optimisation for Optimal Shape Selection of Solar Parabolic Trough Receive	Simon	Ocheme

100	Effect of Porous Media on the CO2 Hydrate Formation	Won Sik	Shin
101	Investigate of Polysilicon Chemical Vapor Deposition Reaction Kinetics Mechanism in	Huang	Zhe Qing
102	An Efficient Anode for Lithium Ion Battery: Inverse Silicon Opal Prepared By Magnesiu	Jae-Hun	Jeong
103	The Tribology of Bicycle Chain Lubricants	William	Michelsen
104	Recent Developments in Ethylene Oxide (EO) Production Technologies	Muhammad	Imran
	Session 74: Poster - Physical Properties and Complex Fluids		
105	On Diffusion Coefficients, Relaxation Times of Oligonucleotides	Kal Renganathan	Sharma
106	Thermodynamic Modelling of Br2-HBr-H2O Ternary System with Enrtl Model	Yue	Yu
107	Evaluation of the Methods for Predicting Liquid Densities of High-Temperatures and I	Akanni S.	Lawal
108	Thermodynamic Model for Quaternary Aqueous Ca2+, Na+, Cl-, SO42- System	Sheik	Tanveer
109	Understanding the Effect of Inhibitors on Controlling Asphaltene Precipitation and Ag	Mohammad	Tavakkoli
110	PVT Modeling of Crude Oils: Development of Advanced Characterization Methods an	Mohan	Boggara
111	Hydrate Plug Location during Depressurization Remediation Technique	Matthew W.	Gilmer
112	Microfluidic Systems That Mimic Reservoir Conditions for Visualizing Asphaltene Aggr	Peng	He
113	Flowloop Measurements of Hydrate Blockage Risk in â€¨Under-Inhibited Gas-Domina	Mauricio	Di Lorenzo
114	A New Quantitative Approach to Assess the Risk of Hydrate Blockage Formation in Su	Zachary M.	Aman
115	Prediction of Asphaltenes Solubility in Organic Solvents Via NRTL-SAC and COSMO-SA	M. R.	Islam
116	Design for Mechanical Integrity in Thermal Mixing Points	Santhosh	Shankar
117	Stimuli-Responsive Rheoreversible Fracturing Fluids for Unconventional Oil and Gas E	Carlos A.	Fernandez
118	Mitigating Downhole Flow Assurance Issues Using Specialist Modeling Software	Adrian	Ferramosca
119	Interaction of Oil and Gas Shale with Drilling Muds in Fracturing Fluids	Samyukta	Koteeswaran
120	Evaluation of the Methods for Predicting Dynamic Viscosity of High-Temperatures an	Akanni S.	Lawal
121	The Van Der Waals Ten Commandments for Cubic Equations-of-State	Akanni S.	Lawal
122	Characterization of Critical Properties and Acentric Factors for High-Molecular-Weigh	Akanni S.	Lawal
123	Molecular Interpretation of Parameters in the Van der Waals Theory of Cubic Equatic	Akanni S.	Lawal
124	Rationale for the Parameterization of Van Der Waals Equations-of-State: The Lawal-L	Akanni S.	Lawal
125	Application of Artificial Neural Networks to Modelling Vapour–Liquid Equilibrium in th	Cornelius Mduduzi	Masuku
126	Role of Surface Properties in Predicting Viscosity of Concentrated Coal-Water Slurries	Amrita	Mukherjee
127	Optimizing Crude Oil Separations – a Study of Turbulence and Chemical Composition	Stefan	Ulrich
128	Prediction of High-Temperature and High-Pressure Dynamic Viscosity of Hydrocarbor	Akanni S.	Lawal
129	Inversion of the Van Der Waals Parameters for Estimation of Binary Interaction Const	Aldo	Ortiz