Technical Session - HALL 1

DAY 1 10 February 2016

- Keynote Speech

NOVEL CATA	ALYSTS / PROCESSES	S FOR REFINING A	PPLICATIONS Technical Session 1		
Chair: Kazuhiro Inamura • Co-Chair: Nilesh Chandak					
13:50 - 14:15	TAKREER Research Centre	S.GnanaPragasam	A novel approach to characterize cracking catalysts particles by laboratory deactivation method		
14:15 - 14:35	Idemitsu Kosan Co.,Ltd.	Tetsuya Fukunaga	Development of Halogen-Modified Pt/KL catalyst for Aromatization Process from Light Naphtha		
14:35 - 14:55	Masdar Institute	Saepurahman	Electrospun silica supported pt/fkl zeolite fibers for naphtha aromatization		
14:55 - 15:15	BASF	Vasileios Komvokis	Novel boron based FCC catalyst technology for improved metal tolerance		
15:15 - 15:35	Petroleum Institute	Abdullah S Berrouk	Process simulation investigation of decomposition of hydrogen sulfide into hydrogen and sulfur		
15:35 - 15:45			Q&A		

воттом о	F THE BARREL UPGE	RADING	Technical Session 3			
Chair: Gnanap	hair: Gnanapragasam Singaravel • Co-Chair: Yoshifumi Hiramatsu					
16:00 - 16:25	Johnson Matthey	B. de Graaf	Maximizing propylene and petrochemicals in resid fluid catalytic cracking			
16:25 - 16:45	Neste Jacobs Oy	Matti Koskinen	How to Improve Residual Hydrocracker in Practice			
16:45 - 17:05	JGC Catalysts and Chemicals Ltd.	Yuji Shirahama	Approach for yields-up of light olefins in FCC reaction			
17:05 - 17:25	Albemarle	Subramani Ramachandran	Iron & calcium contamination in RFCC operations – identification, troubleshooting and mitigation strategies			
17:25 - 17:45	Saudi Arabian Oil Company	Omer Refa Koseoglu	Hydrocracking catalyst development and commercialization			
17:45 - 17:55			Q&A			

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Chair: Mabruk	Technical Session		
8:45 - 9:10	TAKREER Research Centre	Mabruk Issa Suleiman	Simulating process plant corrosivity using a pilot plant
9:10 - 9:30	Idemitsu Kosan Co.,Ltd.	Hideaki Shiotani	Sulfur speciation analysis in condensate by GC-SCD with silver nitrate
9:30 - 9:50	TAKREER	Prashanth Markonda Koteswara	Failure in shell of interpass absorption tower in sulfuric acid regeneration unit (SARU) - An experience
9:50 - 10:10	NALCO Champion Ltd.	Walter Militello	Mitigation of crude unit overhead corrosion through improved monitoring & online control
10:10 - 10:30	Petroleum Institute	Gisha Elizabeth Luckachan	Self-healing anticorrosion coatings of polypyrrol carbon black composites
10:30 - 10:40			Q&A

STRATEGIE	Technical Session 7			
	najreh • Co-Chair: Riz	Muftah H. El-Naas	Assessment of a new process for CO2 capture	
	Masdar Institute	Inas M. AlNashef	Separation of aromatics using novel green solvents	
11:40 - 12:00	Masdar Institute	Isam Janajreh	Numerical and experimental assessment of direct contact membrane desal	ination
12:00 - 12:20	Axens	Tom Frising	Refinery off-gases processing unit - olefins purification and recovery	
12:20 - 12:40	Masdar Institute	Inas M. AlNashef	Novel green solvents for CO2 capturing	
12:40 - 12:50			Q&A	

ALTERNAT	Technical Session 9			
14:00 - 14:25		Madeleine Mitschler	How is R&D essential in Alternative Fuels Technology development for a more sustainable refining industry?	
14:25 - 14:45	Masdar Institute	Tariq Shamim	Hydrogen generation in a three reactor chemical looping reforming process	
14:45 - 15:05	Petroleum Institute	Abhijeet Raj	Effects of oxygenated fuel addition to diesel on particulate matter (PM) emissions	
15:05 - 15:25	Lanzatech	Patrick Sajbel	Monetizing PSA tailgas through gas fermentation	
15:25 - 15:35			Q&A	

Technical Session - HALL 2

DAY 1 10 February 2016

- Keynote Speech

PROCESS (OPTIMIZATION, TROU	BLESHOOTING AND E	NERGY MANAGEMENT IN REFINERIES Technical Session 2			
Chair: Muftah El-Naas • Co-Chair: Abdulhamid Mohamed						
13:50 - 14:15	Masdar Institute	Mohamed Sassi	Experimental investigation of flow regime transition and pressure buildup due to fine deposition in a trickle-bed reactor			
14:15 - 14:35	Axens	Payam Heidararabi	Unveiling your plant energy saving potential			
14:35 - 14:55	Aspen Technology	Saif Sheikh	An approach to management of crude preheat train fouling using engineering tools			
14:55 - 15:15	Missouri University of Science and Technology	Muthanna Al-Dahhan	Statistical and chaotic time series analysis approach to determine and to on-line monitor flow regime in upflow moving packed bed hydrotreater reactor using gamma ray densitometry			
15:15 - 15:35	TAKREER Research Centre	Mohammad Shamsuzzoha	Systematic procedure for simulation of a crude distillation unit			
15:35 - 15:45			Q&A			

EFFICIENT	METHODOLOGIES FO	OR OPTIMIZING R&D A	CTIVITIES Technical Session 4		
Chair: Muthanna El-Dahhan • Co-Chair: Abraham George					
Helmholtz Zentrum Muenchen - German Research Center for Environmental Health Helmholtz Zentrum Muenchen - German Research Center for Environmental Health The application of comprehensive two-dimensional gas chromatography for the qualitative and quantitative and formula of modern and complex petrochemical matrices					
16:25 - 16:45	ANSYS India	Lalithakumar Srinivasa Mohan	Computational fluid dynamics of refinery equipment and modeling counter-current flow		
16:45 - 17:05	Chemspeed Technologies	Amira Abou-Hamdan	The global challenges in chemicals and energy – how to standardize and accelerate R+D within the oil and gas industries		
17:05 - 17:25	Grace	Stefan Brandt	Successful new catalyst development using realistic pilot plant testing		
17:25 - 17:45	hte GmbH	Florian Huber	High throughput testing of resid hydroprocessing & naphtha reforming catalysts		
17:45 - 17:55			Q&A		

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Chair: Mikael I	Technical Session (
8:45 - 9:10	King Abdulaziz City for Science and Technology	Hamid A. Almegren	Effect of promoters and supports on the catalytic activity of CoMo catalyst in thiophenes hydrodesulfurization	
9:10 - 9:30	Honeywell UOP	Ali Jahel	Optimizing R&D activities for improved mercury guard adsorbents development	
9:30 - 9:50	Axens	Christophe Pierre	Leveraging gasoline and aromatics integrated schemes thanks to technology	
9:50 - 10:10	JGC Catalysts and Chemicals Ltd.	Hisaya Ishihara	Advanced diesel hydrotreating catalyst with superior activity and stability	
10:10 - 10:30	Masdar Institute	Saepurahman	Electrospun composite zeolite- nickel oxide- tungsten oxide fibers	
10:30 - 10:40			Q&A	

PROCESS OPTIMIZATION, TROUBLESHOOTING AND ENERGY MANAGEMENT IN REFINERIES Chair: Mohamed AlMusharfy • Co-Chair: Abdullah Berrouk Technical Session 8						
10:55 - 11:20 Missouri University of Science and Technology Muthanna Al-Dahhan multiphase reactors via sophisticated measurement techniques						
11:20 - 11:40	Idemitsu Kosan Co.,Ltd.	Ryo Tanabe	Improvement of RFCC unit startup			
11:40 - 12:00	TAKREER Research Centre	Tommy Firmansyah	Use of computational fluid dynamics analysis to predict solidification time of waxy hydrocarbon oil			
12:00 - 12:20	TAKREER Research Centre	Mohammad Abdur Rakib	Riser modeling of a resid fluid catalytic cracking (RFCC) Unit			
12:20 - 12:40	Reliance Industries Limited	Vinay Naik	Optimization of propylene recovery units to recover maximum propylene from refinery LPG			
12:40 - 12:50			Q&A			

PROCESS (OPTIMIZATION, TROU	BLESHOOTING AND E	NERGY MANAGEMENT IN REFINERIES	Technical Session 10	
Chair: Moham	Chair: Mohammad Abdur Rakib • Co-Chair: Mohamed Sassi				
14:00 - 14:25	CEPSA	Jesus Lazaro	Modelling of ULSD units as a valuable tool for researching and refineries		
14:25 - 14:45	TAKREER Research Centre	Hala Haitham Hejazi Kelani	Predictive Model of a Gas oil Hydrotreater Unit for Studying Different Feeds.		
14:45 - 15:05	TAKREER Research Centre	Nilesh Chandak	Optimization of hydrocracker pilot plant operation for Base Oil production		
15:05 - 15:25	TAKREER Research Centre	Mustafa Karakaya	Modeling and Simulation of Heavy Oil Hydrocracking Using the Continuous Lumpin	g Approach	
15:25 - 15:45	Inprocess Tech & Consulting Group S.L & Aspen Technology	Josep-Anton Feliu	Optimize Hydrogen Network in Refineries with Rigorous Simulation Tools		
15:45 - 15:55			Q&A		