

Tuesday, 29 October, 2019 (Technical Session 1)					
Innovative Materials Room 1		Refining & Chemicals Room 2		Exploration & Production Room 3	
Circular Economy & Sustainability Room 4		Digital Transformation Room 5			
<b>Session Title</b>  <b>Chair:</b> Dr. Haleema A. Alamri (Aramco) <b>Co-chair:</b> Dr. Hafedh Driss (KAU)	<b>Session Title:</b> Advances in Macromolecular Engineering	<b>Session Title:</b> Crude to Chemicals Challenges and Solutions  <b>Chair:</b> Dr. Shakeel Ahmed (KFUPM) <b>Co-chair:</b> Dr. Saad Al-Bogami (Aramco)	<b>Session Title:</b> Innovative Formulations & Chemicals (1)  <b>Chair:</b> Dr. Saleh Al-Mutairi (Halliburton) <b>co-chair:</b> Dr. Abdullah Al-Moajil (Aramco)	<b>Session Title:</b> Circular Economy Applications and Challenges  <b>Chair:</b> Dr. Bandar Fadhel (Aramco) <b>Co-Chair:</b> Dr. Aadesh Harale (Aramco)	<b>Session Title:</b> Machine Learning for Optimization and Prediction of processes  <b>Chair:</b> Dr. Yousung Jung (KAIST) <b>Co-chair:</b> Dr. Georgios Lithoxoos (Aramco)
<b>Time</b>  14:00-14:20	<b>Title:</b> Development of PEG-modified Poly(ether-b-amide) Membranes for Sour Gas Separation. <b>Authors:</b> John Yang, Daniel J. Harrigan, Milind M. Vaidya, Michele L. Ostraat Aramco Services Company	<b>Title:</b> Advances in Crude to Chemicals <b>Authors:</b> Keith Couch, Joao Alves, Robert Sloane Honeywell-UOP	<b>Title:</b> The Synergy of Surfactant and Nanoparticles: Towards Enhancing Foam Stability <b>Authors:</b> Zuhair AlYousif, Daivd Schechter Saudi Aramco	<b>Title:</b> Recycling Polymers to Chemicals <b>Authors:</b> Abdulrahman bin Jumah, Arthur Garforth, Aleksander Tedstone, Isaac Campbell and Chris Hardacre Manchester University	<b>Title:</b> Chemical Property prediction Using Machine Learning <b>Authors:</b> Kiran K. Yalamanchi, Francesco Tutino, M. Monge-Palacios, S. Mani Sarathy, Xin Gao KAUST
14:20-14:40	<b>Title:</b> Employing Supramolecular Chemistry to Engineer New Macrocyclic based Materials <b>Authors:</b> Basem Moosa and Niveen Khashab KAUST	<b>Title:</b> Crude to Chemicals – The Way Forward <b>Authors:</b> Musaed Al-Thubaiti, Asma Tahlawi, Fahad Al-Mansour Saudi Aramco	<b>Title:</b> Formulating Water-based Environmental Friendly Pre-flush System <b>Authors:</b> Islam Hassan Modern National Chemicals	<b>Title:</b> Design of Sustainable Packaging Using Simulation Based Optimization <b>Authors:</b> Abdul Rahim Arafath, Raghavendra Janiwarad, Bhaskar Patham SABIC	<b>Title:</b> Machine Learning Approach for Prediction of Reaction Yield with Simulated Catalyst Parameters. <b>Authors:</b> Akira Yada AIST
14:40-15:00	<b>Title:</b> Self-Healing Supramolecular Block Copolymers via Non-covalent Complementary Interaction <b>Authors:</b> Saibal Bhaumik, Nikos Hadjichristidis KAUST	<b>Title:</b> Paving The Way to More Efficient Crude to Chemical Complex via Innovative Materials <b>Authors:</b> Fabrice BERTONCINI IFPEN	<b>Title:</b> First of its Kind” Application of Novel Conformance Chemical Technology in South Kuwait Field <b>Authors:</b> Kutbuddin Bhatia, Abdullah Al Enezi, Bu-Mijdad Mohammed, and Alaa Alboueshi, Amr Abdelbaky. Halliburton	<b>Title:</b> Experiences from Management of Ageing & Life Extension of Subsea flexible pipes and marine hoses. <b>Authors:</b> Konstantinos Vatopoulos Aramco	<b>Title:</b> A Machine Learning Approach for Pipeline Internal Corrosion: Retrospective and Prospective. <b>Authors:</b> Christian Canto Maya, Biswas Avidipto, Nasser Otaibi Saudi Aramco
15:00-15:20	<b>Title:</b> Sensitization of Nanostructured TiO <sub>2</sub> layer with Dye Extracted from Peels <b>Authors:</b> Khalil Ebrahim Jasim, Najla Mirza AlQassas  University of Bahrain	<b>Title:</b> Pressurized, Long-term Steam Reforming of Heavy Naphtha – challenges and Solutions <b>Authors:</b> Joongmyeon Bae, Jae Young Yoo, Jaemyung Lee, Aadesh Harale, and Sai Katikaneni KAIST	<b>Title:</b> Development of New Kinetic Hydrate Inhibitors for Gas Field Applications <b>Authors:</b> Henry Delroisse, Frédéric MOSER, Gilles BARRETO ARKEMA	<b>Title:</b> Life Cycle Assessment for Produced Water in Oil and Gas operations <b>Authors:</b> Ekaterina Kremlva Aramco Overseas BV	<b>Title:</b> Cyber-Physical Approach for the Detection of Corrosion Under Insulation. <b>Authors:</b> Ayman Amer, Ayman Amer, Ali Al Shehri, Vincent Cunningham and Ihsan Taie Saudi Aramco

Tuesday, 29 October, 2019 (Technical Session 2)									
Innovative Materials Room 1		Refining & Chemicals Room 2		Exploration & Production Room 3		Circular Economy & Sustainability Room 4		Digital Transformation Room 5	
Session Title	<p><b>Session Title:</b> Smart, Multifunctional, Composite Materials and Structures</p> <p><b>Chair:</b> Dr. Hassan Al-Rabiah (KISR) <b>Co-chair:</b> Dr. Enrico Bovero (Aramco)</p>	<p><b>Session Title:</b> Catalyst Applications</p> <p><b>Chair:</b> Dr. Robert Slone (Honeywell-UOP) <b>Co-chair:</b> Dr. Nahid Siddique (KFUPM)</p>	<p><b>Session Title:</b> Innovative Formulations &amp; Chemicals (2)</p> <p><b>Chair:</b> Mr. Khalid Aldossary (TAQA) <b>Co-chair:</b> Dr. Aisha Alsaleh (Halliburton)</p>	<p><b>Session Title:</b> Carbon Capture &amp; Utilization</p> <p><b>Chair:</b> Dr. Aqil Jamal (Aramco) <b>Co-Chair:</b> Dr. Hasan Imran (Aramco)</p>	<p><b>Session Title:</b> Data Analysis and Modeling for Efficient Processes</p> <p><b>Chair:</b> Dr. Naim Akmal (Aramco) <b>Co-chair:</b> Dr. Husinsyah Sitepu (Aramco)</p>				
15:40-16:00	<p><b>Title:</b> Design of metal nanostructures as high performance electrocatalysts for CO2 conversion <b>Authors:</b> <u>Woong Choi</u> and Hyunjoon Song KAIST</p>	<p><b>Title:</b> Catalytic Dealkylation of Alkyl Polycyclic Hydrocarbons Towards Innovation of Petroleum Refinery <b>Authors:</b> <u>Naonobu Katada</u> Totori University</p>	<p><b>Title:</b> Evaluation of Compatibility and Synergisms Between Completion Chemicals Using A Non-Ideal Mixing Mod. <b>Authors:</b> Liang Xu, <u>James Ogle</u> Halliburton</p>	<p><b>Title:</b> Analysis and optimization of multi-path CCU system using a computer-aided tool. <b>Authors:</b> <u>Wonsuk Chung</u>, Ali S. Al-Hunaidy, Hasan Imran, Jay H. Lee KAIST</p>	<p><b>Title:</b> Small molecule activation using computational catalysis and data-driven approaches. <b>Authors:</b> <u>Yousung Jung</u> KAIST</p>				
16:00-16:20	<p><b>Title:</b> Development of a Liquid Crystal-Based Sensing Platform for Direct Detection of Heavy Metal Ions <b>Authors:</b> <u>Sulayman A. Oladepo</u> KFUPM</p>	<p><b>Title:</b> Catalyst Control for the Synthesis of Cyclic Carbonates or Polycarbonates from CO2 and Epoxides <b>Authors:</b> <u>Hyunwoo Kim</u> KAIST</p>	<p><b>Title:</b> Investigation of Sacrificial Agents for Surfactant Injection in Carbonates. <b>Autours:</b> <u>Annie Wang</u>, Zhenpeng Leng, Ming Han, Alhasan Fuseni Saudi Aramco</p>	<p><b>Title:</b> Intermediate temperature CO2 capture: a new promising pathway for future low-cost CCUS <b>Authors:</b> <u>Takuya Harada</u>, Cameron Halliday, Aqil Jamal, T. Alan Hatton MIT</p>	<p><b>Title:</b> Automated Kick Detection Using Data Mining. <b>Authors:</b> <u>Raed Alouhali</u>, Salem AlGharbi, Abdullah AlYami Saudi Aramco</p>				
16:20-16:40	<p><b>Title:</b> Electrochemical synthesis of ammonia with proton-conducting solid oxide and operation of direct ammo <b>Authors:</b> <u>Kangyong Lee</u>, Seung Jin Jeong, WooChul Jung, Sai P. Katikaneni, Kunho Lee, Joongmyeon Bae KAIST</p>	<p><b>Title:</b> Optimization of Gasoline Yield Produced from Plastic Mixture Waste by Catalytic Cracking <b>Authors :</b> <u>Muhammad Faisal Irfan</u>, S. A. Habib, Y. Ali, S. M. Z. Hossain, S. Haji University of Bahrain</p>	<p><b>Title:</b> Novel Nanoparticles for Produced Sand and Water Management in Oil and Gas Applications <b>Authors:</b> <u>Rajendra Kalgaonkar</u>, Khalid Alnoaimi and Vikrant Wagle Saudi Aramco</p>	<p><b>Title:</b> Efforts for CO2 Sequestration, Metal nanoparticles, and Membrane <b>Authors:</b> <u>Nezar H Khdary</u> KACST</p>	<p><b>Title:</b> SVR-CSA based platform for modelling and optimization of waste water treatment by Chlorella Kessleri <b>Authors:</b> <u>S.M. Zakir Hossain</u>, N. Sultana and S.A. Razzak University of Bahrain</p>				
16:40-17:00	<p><b>Title:</b> Reinforcing polyethylene (LLDPE) with polyethylene-grafted silica nanoparticles <b>Authors:</b> Reem D. Alghamdi, <u>G. Zapsas</u>, K. Ntetsikas, P. Bilalis, N. Hadjichristidis KAUST</p>	<p><b>Title:</b> Catalyst for Dealkylation–transalkylation of Heavy Alkyl-aromatics <b>Authors:</b> <u>Veera Venkata Ramakrishna Tammana</u>, M. Thamer, Z. Zhang, A. Abdali, A. Jazzar, A. Al Mahdi, A. Alaqeel, R. AbuDawoud and S. Shaikh Saudi Aramco</p>	<p><b>Title:</b> 2D Materials Effect On The Self-Healing Polymer Hydrogels For Water Shutoff <b>Authors:</b> <u>Edreese Alsharaeh</u>, Feven Matthews Michael, Ayman Almohsin Alfaisal University</p>	<p><b>Title:</b> Catalytic non-redox carbon dioxide fixation in cyclic carbonates <b>Authors:</b> <u>Cafer T. Yavuz</u>, Saravanan Subramanian, Doyun Kim, Thien Nguyen, Mousumi Garai, Wonki Lim KAUST</p>	<p><b>Title:</b> Data Management and Integration Framework for Industrial Internet-of-Things in Oil and Gas Smart Plants. <b>Authors:</b> <u>Abdullah Al-Halafi</u> Saudi Aramco</p>				

Wednesday, 30 October, 2019  
 (Technical Session 3)

Innovative Materials Room 1		Refining & Chemicals Room 2	Exploration & Production Room 3	Circular Economy & Sustainability Room 4	Digital Transformation Room 5
Session Title	<b>Session Title:</b> Innovative Materials for Engineering Applications  <b>Chair:</b> Dr. Abdulrahman M. Albadri (KACST) <b>Co-chair:</b> Dr. Saeed Al-Shahrani (SABIC)	<b>Session Title:</b> Contaminations Removal  <b>Chair:</b> Dr. Rashid Ansari (Saudi Aramco) <b>Co-chair:</b> Dr. Nahid Siddique (KFUPM)	<b>Session Title:</b> Advances in Fracturing Fluids & Treatment  <b>Chair:</b> Dr. Abdullah Al-Moajil (Aramco) <b>Co-chair:</b> Dr. Hicham El Hajj (Halliburton)	<b>Session Title:</b> CO2 Utilizations and Conversion  <b>Chair:</b> Dr. Issam Gergeige (Aramco) <b>Co-Chair:</b> Dr. Yasmeen Aldawsari (Aramco)	<b>Session Title:</b> Value Realization Through Process Intelligence  <b>Chair:</b> Dr. S. M. Zakir Hossain (Univ of Bahrain) <b>Co-chair:</b> Christian Canto Maya (Aramco)
10:40-11:00	<b>Title:</b> From Oils to “Degradable Polyethylene”: A Fast and Living Organocatalytic Ring-Opening Polymerization <b>Authors:</b> <a href="#">Viko Ladelta</a> , Nikos Hadjichristidis KAUST	<b>Title:</b> Effects of Titania Coatings on Hydrodesulfurization Catalysts, Insights from First-principles <b>Authors:</b> <a href="#">Hiroki Iriguchi</a> JXTG Nippon Oil & Energy Corp.	<b>Title:</b> A Novel Non-Damaging Fracturing Fluid: From Lab to Field <b>Authors:</b> <a href="#">Prasad Karadkar</a> , Mohammed Alabdrabalnabi, Feng Liang and Mohammed Bataweel Saudi Aramco	<b>Title:</b> Photocatalytic CO2 Conversion Using Cu-Based Cocatalysts with Varying Surface Treatments <b>Authors:</b> <a href="#">Doh C. Lee</a> , Gwuimin Kim, Ilsong Lee, Pan Lu, Sunil Jeong KAIST	<b>Title:</b> Towards Connected Refineries with Advanced Unit Performance Management <b>Authors:</b> Luc Wolff, Pierre-Yves Le-Goff, <a href="#">Ali Jahel</a> Axens SA
11:00-11:20	<b>Title:</b> 2D Materials Hybrid Structure Effect On Rechargeable Lithium Battery At Elevated Temperature <b>Authors:</b> <a href="#">Edreese Alsharaeh</a> , Zahra Bayhan, Yasmin Mussa, Muhammad Arsalan Alfaisal University	<b>Title:</b> Meeting IMO 2020 Imposed Challenges by Employing Oxidative Desulfurization of Heavy Oils <b>Authors:</b> Saumitra Saxena, <a href="#">Claudia Hernandez</a> , Paolo Guida, Abdul Gani Abdul Jameel, Long Jiang, Saumitra Saxena, Pedro Castano, William Roberts KAUST	<b>Title:</b> Fracture Conductivity Study in Carbonate Formation Using a Solid Acid System: A Laboratory Study <b>Authors:</b> <a href="#">Mohammad Alqam</a> , Caliboso Saudi Aramco	<b>Title:</b> Cascaded Electrolysis to Optimise the Direct Electrochemical Conversion of CO2 to C2/C3 Hydrocarbons. <b>Authors:</b> <a href="#">Maximilian Fleischer</a> , Sofia Romero, Christian Scherrer, Kai-Olaf Hinrichsen Siemens AG	<b>Title:</b> Bridge Safety & Security Mandates for Industrial Process Felicitities (Energy Industry) <b>Authors:</b> <a href="#">Khalid S. Alghamdi</a> Saudi Aramco
11:20-11:40	<b>Title:</b> Self-cleaning Superhydrophobic Epoxy Coating Based on Fibrous Silica-coated Iron Oxide Magnetic Nanoparticles <b>Authors:</b> <a href="#">Haleema Alamri</a> , Abdullah Al-Shahrani, Enrico Bovero, Turki Khaldi, Gasan Alabedi, Waleed Obaidl, hsan Al-Taie, and Aziz Fihri Saudi Aramco	<b>Title:</b> Trace Helium Recovery from Natural Gas Using Membranes <b>Authors:</b> Jason Ploeger, Jin Cao, Mustafa Alkhabbaz, Erin Sorensen, <a href="#">Charles Page</a> Air Products and Chemicals	<b>Title:</b> Application of Sand and Impact of Sand Properties in Enhancing Hydrocarbon Production <b>Authors:</b> <a href="#">Muzzammil Shakeel</a> Halliburton	<b>Title:</b> Non-reductive Catalytic Conversion of Carbon Dioxide to Organic Carbonates and Carbamates <b>Authors:</b> <a href="#">Keiichi Tomishige</a> Tohoku University	<b>Title:</b> Robotics in Oil&Gas Operations; A Review <b>Authors:</b> <a href="#">Ahmed Alalouni</a> , Muhammad Arsalan; Abubaker Saeed; Muqbil Khalaf Saudi Aramco
11:40-12:00	<b>Title:</b> Synthesis and Characterization of Branched fcc/hcp Ruthenium Nanostructures and Their Catalytic Activity <b>Authors:</b> <a href="#">Noktan M. AlYami</a> , Shouwen Shen and Abdullah K. AlDakheel Saudi Aramco	<b>Title:</b> Development of Thermo-neutral Reforming Catalyst for Hydrogen Production: Low Pressure Structured ca <b>Authors:</b> <a href="#">Shakeel Ahmed</a> , Sai P. Katikaneni, and Aadesh Harale KFUPM	<b>Title:</b> The Role of Microstructural Characterization and Exothermic Reaction in Optimizing Hydraulic Fractur <b>Authors:</b> <a href="#">Hmeed AL-Badairy</a> , Ayman Al-Nakhli and Mohammed Alqam Saudi Aramco	<b>Title:</b> A Methodology for Developing Effective Approaches for CO2 Utilisation <b>Authors:</b> <a href="#">Tony Picaro</a> Aramco Overseas Company B.V.	<b>Title:</b> Advanced Process Intelligence at Air Products Saudi Technology Center. <b>Authors:</b> <a href="#">Pratik Misra</a> , Vijay N. Kumar, Umesh Patil Air Products

Wednesday, 30 October, 2019 (Technical Session 4)					
Innovative Materials Room 1		Refining & Chemicals Room 2	Exploration & Production Room 3	Circular Economy & Sustainability Room 4	Digital Transformation Room 5
Session Title	<b>Session Title:</b> Innovative Materials for Engineering Applications  <b>Chair:</b> Dr. Mansour Al-Elyani (SABIC) <b>Co-chair:</b> Dr. Fahd Alghunaimi (Aramco)	<b>Session Title:</b> Catalyst for Refining and Petrochemicals-1  <b>Chair:</b> Dr. Omar Koseoglu (Saudi Aramco) <b>Co-chair:</b> Dr. Shakeel Ahmed (KFUPM)	<b>Session Title:</b> Scale and Corrosion Control  <b>Chair:</b> Dr. Mohammed H. Khaldi (Aramco) <b>Co-chair:</b> Dr. Alsu Valiakhmetova (Halliburton)	<b>Session Title:</b> Advancements in Fuels, Fuel Cells, and Power Units Applications  <b>Chair:</b> Dr. Mourad Younes (Aramco) <b>Co-Chair:</b> Dr. S. M Zakir Hossain (Univ. of Bahrain)	<b>Session Title:</b> Process Monitoring and Modeling  <b>Chair:</b> Dr. Visvanathan Balasaravanan (SABIC) <b>Co-chair:</b> Yuguo Wang (Aramco)
14:00-14:20	<b>Title:</b> Improved Gas Transport Performance and Feed Stability Through Highly Tunable, Branched Nanoparticles <b>Authors:</b> Benjamin J. Sundell, Won Seok Chi, Ke Zhang, Daniel J. Harrigan, Steven C. Hayden, Zachary P. Smith Aramco Services Company	<b>Title:</b> Novel Cobalt Catalyst to Produce Cyclohexane by the Hydrogenation of Benzene <b>Authors:</b> Ahmad Alshammari, Rashid M. Altamimi, Rajenahally V. Jagadeesh KACST	<b>Title:</b> Innovative Permanent Down-hole Scale and Corrosion Monitoring System Using Ultrasound Guided Waves <b>Authors:</b> Abubaker Saeed, Arno Volker <b>Speaker:</b> Ahmed R. Alalouni Saudi Aramco	<b>Title:</b> Green Saudi Arabia: Saudi Arabian limestone economically captures CO <sub>2</sub> and SO <sub>2</sub> from combustion of Heavy Fuel Oil (HFO) <b>Authors:</b> Robert W. Dibble, Sally L. Homsy KAUST	<b>Title:</b> Molecular Modelling of Co-processing Biomass Pyrolysis Oil with Vacuum Gasoil in an Oil Refinery Flu. <b>Authors:</b> Mohamed Al Jamri, Robin Smith; Jie Li University of Manchester
14:20-14:40	<b>Title:</b> Therban HNBR and Extrusion Resistance in Packer Applications <b>Authors:</b> Susanna Lieber, Christoph Gögelein, Marjan Hemstede, Andreas Kaiser, Victor Nasreddine Arlanxeo	<b>Title:</b> Core Shell Nanomaterial as Heterogeneous Catalysts for Industrial Application <b>Authors:</b> Noor Almana Saudi Aramco	<b>Title:</b> A new chemical approach for managing iron sulfide: an effective alternative to THPS, acrolein, acids <b>Authors:</b> Alsu Valiakhmetova, Martijn Huijgen, Scott Rawlins, Tawfik Al-Ghamdi, Dr. Ping Chen Halliburton MultiChem	<b>Title:</b> A Diesel-Driven Solid Oxide Fuel Cell System for Auxiliary Power Unit Applications. <b>Authors:</b> Minseok Bae, Joongmyeon Bae, Sai P. Katikaneni KAIST	<b>Title:</b> Past, Present and Future Trends in Kinetic Modeling: Application to Hydrocracking. <b>Authors:</b> B. Celse, Per Julian Becker, Denis Guillaume IFPEN
14:40-15:00	<b>Title:</b> Elevated Sour Gas Separation Performance by Controlling Crystallinity and Crosslinking in Poly(ethyl <b>Authors:</b> Daniel J. Harrigan, Benjamin J. Sundell, John A. Lawrence III Aramco Services Company	<b>Title:</b> Well-controlled Synthesis Techniques for Finely Tuned Catalysts for the Conversion of 2-butene <b>Authors:</b> Brian S. Hanna, Timothy J. Kucharski, Maxim P. Bukhovko, Rachael O. Grudt, Michele L. Ostraat ASC	<b>Title:</b> Corrosion Behavior of 90/10 Cupronickel Heat Exchanger Tubing Material in Chloride Solutions Contain <b>Authors:</b> Hosni M A Ezuber University of Bahrain	<b>Title:</b> Marketable Prospects of Microbial Fuel Cell for Sustainable Energy Generation <b>Authors:</b> Mohammad Salim Akhter University of Bahrain	<b>Title:</b> Computer-Aided Tool for the Uncertainty-Accounted Process Synthesis of CO <sub>2</sub> Utilization Technologies <b>Authors:</b> Jeehwan Lee KAIST
15:00-15:20	<b>Title:</b> SABIC's plastic powders for 3D printing <b>Authors:</b> Zahir Bashir and Fayez Alfayez SABIC	<b>Title:</b> Superior Activity of Rh Nanoparticles in Olefin Hydrogenation <b>Authors:</b> Abdullah Alhanash, Mhamed Benaissa, and Mohamed S. Hamdy KKU	<b>Title:</b> Corrosion Control During Acidizing Treatment in Oil Wells <b>Authors:</b> Hicham El Hajj, Muzzammil Shakeel Halliburton	<b>Title:</b> Simulation Driven Clean Fuel Design <b>Authors:</b> S. Mani Sarathy KAUST	<b>Title:</b> Development of a Novel Operating Plan for Khurais Steam and Fuel Gas <b>Authors:</b> Abdulmohsin, Mohammed T, Amminudin, Kamarul A Saudi Aramco



Wednesday, 30 October, 2019  
 (Technical Session 5)

Innovative Materials Room 1		Refining & Chemicals Room 2	Exploration & Production Room 3	Circular Economy & Sustainability Room 4	Digital Transformation Room 5
Session Title	<b>Session Title:</b> Innovative Materials for Energy Applications  <b>Chair:</b> Dr. Hamad Albrithen (KSU) <b>co-chair:</b> Dr. Abdullah Alodhayb (KSU)	<b>Session Title:</b> Catalyst for Refining and Petrochemicals-2  <b>Chair:</b> Mr. Mohammed Al-Wadani (SADARA) <b>Co-chair:</b> Dr. Ahlam Alsulami (University of Jeddah)	<b>Session Title:</b> Advances in Surfactant Chemistry and Applications  <b>Chair:</b> Dr. Taha Okasha (Aramco) <b>Co-chair:</b> Dr. Nour O Baqader (Aramco)	<b>Session Title:</b> Renewable Energy Advancements  <b>Chair:</b> Dr. Ahmad Al-Saggaf (Aramco) <b>Co-Chair:</b> Dr. Yasmeen Aldawsari (Aramco)	<b>Session Title:</b> Advanced Techniques and Characterizations  <b>Chair:</b> Benoit Celse (IFBEN) <b>Co-chair:</b> Frederick Adam (Aramco)
15:40-16:00	<b>Title:</b> Capturing the Exhaust Pollutants - The Need to Develop Advanced Materials <b>Authors:</b> <a href="#">Tamour Javed</a> , Remi Mahfoez, Esam Z. Hamad Saudi Aramco	<b>Title:</b> Single Step Catalytic Cracking of Crude to Chemicals in a Packed Bed Reactor <b>Authors:</b> Ahmet R. Özdural, Halil Kalkan <a href="#">Hacettepe University</a>	<b>Title:</b> Investigation of Dynamic Interfacial Tensions of Surfactant Solutions for Improving Oil Production <b>Authors:</b> Limin Xu, Ming Han, Dongqing Cao, and <a href="#">Alhasan Fuseni</a> <a href="#">Aramco Beijing Research Center</a>	<b>Title :</b> Leading-Edge Mirrorless Solar Thermal Panels Reduce Running Costs and Clean Upstream Oil & Gas Image <b>Authors:</b> <a href="#">Marco Scarpellino</a> , Jonathan Koifman, Piero Abbate TVP Solar	<b>Title:</b> A RAPID TECHNIQUE TO QUANTIFY STABILIZER IN POLYPROPYLENE <b>Authors:</b> <a href="#">Lohith Nanjgowda</a> , Saeed Al-Shahrani , George Kuriakose, Sang Kim, Michael Hall, Faisal Al-Suhaibani, Abderrahman Meddad SABIC
16:00-16:20	<b>Title:</b> Design and Analysis of Spoolable Thermoplastic Reinforced Pipes (RTP) for On-shore Oil and Gas Applications <b>Authors:</b> <a href="#">Ali Alghamdi</a> , Abdul Rahim Arafath and Ratnesh Khandelwal SABIC	<b>Title:</b> Catalyst Technology for Maximize Light Olefin Yield in FCC-U <b>Authors:</b> Mitsunori Watabe <b>Presenter:</b> <a href="#">Takaki Mizuno</a> JGC C&C	<b>Title:</b> Melioration in the Properties of Drilling Mud Using Surfactant Modified Graphene <b>Authors:</b> <a href="#">Muhammad Azeem Akbar Rana</a> , Tawfik A. Saleh KFUPM	<b>Title:</b> Investigation of Green Synthesised Silver Nanoparticles in Dye-Sensitized Solar Cells <b>Authors:</b> <a href="#">Khalil Ebrahim Jasim</a> , Fatema Jaber Aljaboori, and Fryad Henari <a href="#">University of Bahrain</a>	<b>Title:</b> Catalyst Characterization for Converting Heavy Compounds C9+ to BTX <b>Authors:</b> <a href="#">Ibrahim Zaharni</a> , Noor Mana and Ibrahim Jadidi Saudi Aramco
16:20-16:40	<b>Title:</b> PA11 & PVDF : high performance polymers for oil and gas applications <b>Authors:</b> <a href="#">Hayrani CIFTCI</a> , Patrick DANG and Cyrille MATHIEU ARKEMA	<b>Title:</b> Application of inferential models to crude distillation process <b>Authors:</b> <a href="#">Rashid M Ansari</a> Saudi Aramco	<b>Title:</b> NanoSurfactants: Crude to Advanced Materials for Enhanced Oil Recovery Applications <b>Authors:</b> Ayrat Gizzatov , <a href="#">Afnan Mashat</a> , Amr I. Abdel-Fattah Saudi Aramco	<b>Title:</b> Solar Energy Storage Using Shape-Stabilized Phase Change Materials: MgO and Mg(OH)2 Containing Poly <b>Authors:</b> <a href="#">Md. Hasan Zahir</a> KFUPM	<b>Title:</b> X-Ray Fluorescence (XRF) for monitoring and controlling the fabrication and use of catalytic material. <b>Authors:</b> <a href="#">Nagmeddin Elwaer</a> , Nouri Hassan, Dev Ranjan Perdhan SABIC
16:40-17:00	<b>Title:</b> 3-Dimensional Nanoarchitectures for Energy Conversion <b>Authors:</b> <a href="#">Yeon Sik Jung</a> and Yeji Kim KAIST	<b>Title:</b> Non-Conventional Oxidative Dehydrogenation of Propane to Propylene: Influence of ZrO2 Phase Structure <b>Authors:</b> <a href="#">Mohamed Mokhtar</a> , Katabathini Narasimharao, S. Basahel, S. Bawaked, T. Ali, N. Al-Yassir , K. Al-Majnouni, A. Al-Mutairi, A. Al-Zenaidi, A. Toseef, N. Elwaer <a href="#">King Abdulaziz University</a>	<b>Title:</b> Surfactant Partitioning in Oil-Water Systems for Improving Oil Production <b>Authors:</b> Jian Hou, M. Han, <a href="#">Alhasan Fuseni</a> <a href="#">Aramco Asia</a>	<b>Title:</b> ZnSnN2 Semiconductor Thin Film Deposited by PVD Magnetron Sputtering for Photovoltaics Applications <b>Authors:</b> <a href="#">F. Alnjiman</a> , A. almoshawah, A. Alodhyay, S. Diliberto, S. Bruyère, J. Ghanbaja, P. Miska, H. Albrithin, J.F. Pierson <a href="#">King Saud University</a>	<b>Title:</b> Achieving the Highest Accuracy of Helium Measurement <b>Authors:</b> <a href="#">Ahmed J. Ibrahim</a> , Leroy Ellis, Steve Clayton, Hussain A. Shammary Saudi Aramco

Thursday, 31 October, 2019 (Technical Session 6)					
Innovative Materials Room 1		Refining & Chemicals Room 2	Exploration & Production Room 3	Circular Economy & Sustainability Room 4	Digital Transformation Room 5
Session Title	<b>Session Title:</b> Innovative structural optimization for different application  <b>Chair:</b> Dr. Saeed Al-Shahrani (SABIC) <b>Co-chair:</b> Dr. Aziz Fihri (Aramco)	<b>Session Title:</b> Petroleum Refining and Petrochemicals Mix  <b>Chair:</b> Dr. Hassan Alasiri (KFUPM) <b>Co-chair:</b> Dr. Shakeel Ahmed (KFUPM)	<b>Session Title:</b> Biological Related Activities and Control in Upstream and Downstream  <b>Chair:</b> Dr. Alsu Valiakhmetova (Halliburton) <b>Co-chair:</b> Dr. Taha Okasha (Aramco)	<b>Session Title:</b> Waste Management  <b>Chair:</b> Ensan Al-Ayoubi (Aramco) <b>Co-Chair:</b> Talal Al-Ghamdi (Aramco)	<b>Session Title:</b> Test Methods & Advanced Characterizations  <b>Chair:</b> Dr. Mohamed Bin Shams (Univ of Bahrain) <b>Co-chair:</b> Dr. Georgios Lithoxoos (Aramco)
10:50-11:10	<b>Title:</b> Optimizing Porous Catalytic Materials with Respect to Intra-particle Mass Transfer <b>Authors:</b> G. Pirngruber, E. Jolimaitre, A. Hugon, and A.A. Quoineaud IFP Energies nouvelles (IFPEN)	<b>Title:</b> Optimizing an Industrial Methanol Reactor Using Aspen Plus <b>Authors:</b> Shaker Haji, Omar Al Deeb, Ashraf Hassan University of Bahrain	<b>Title:</b> Microbiologically Influenced Corrosion Investigation for Refinery Crude Stabilization <b>Authors:</b> Abdulmohsen Alhumam, Husam Khanfar, Michael Davidson, Ayman Janbi, Abdulkarim Al-Ghahtani, Fahad Hamidi, Ammar Alsaqer Saudi Aramco	<b>Title:</b> Nanocellulose from Date-Palm Trees (Phoenix Dactylifera L.) <b>Authors:</b> Abdulrahman G. Alhamzani Imam Muhammad S University	<b>Title:</b> Characterization of Synthesized Nano-Sized ZSM-5 Zeolite Catalysts by Using X-ray Powder Diffraction <b>Authors:</b> Rasha A. Al-Ghamdi, Husin Sitepu, Lianhui Ding, and Hassan M. Sadiq Saudi Aramco
11:10-11:30	<b>Title:</b> Development and Testing of Novel Lubricants for Extreme Piston Ring Pack Environments <b>Authors:</b> Frank T. Hong, S. Mani Sarathy KAUST	<b>Title:</b> Exploring the Potential Energy Landscape of Zeolites to Understand Deactivation Pathways <b>Authors:</b> Brian S. Hanna, Steven C. Hayden, H. Li, E. Converse, A. France-Lanord, T. Headrick, and J. Grossman ASC	<b>Title:</b> Reduce the Growth of Biofouling in Seawater Industrial Cooling Towers by Alternative Oxidants <b>Authors:</b> Mohammed Albloushi, S. Al-Sayegh, A. Al-Refaie and T. Leiknes SABIC	<b>Title:</b> Crow Search Algorithm for Global Optimization of Papaya Oil Extraction Parameters <b>Authors:</b> S. M. Zakir Hossain, S. Taher, A. Khan, N. Sultana, M.F. Irfan, S.A. Razzak, B. Haque University of Bahrain	<b>Title:</b> The Role of Reference Materials and Methods (Technique) in Chemical Analysis of Refractory Material <b>Authors:</b> Alharbi, Abdulaziz, Akhtar Moahmmad T, Abduljabbar khan; Elyani-Al, Mansour SABIC
11:30-11:50	<b>Title:</b> Selectivity and Efficient Pb and Cd Ions Removal by Magnetic MFe <sub>2</sub> O <sub>4</sub> (M=Co, Ni, Cu and Zn) Nanoparticles <b>Authors:</b> K. Al Yaqoob, M. Bououdina, B. Al-Najar, M. S. Akhter, J. Judith Vijaya, W. Cai University of Bahrain	<b>Title:</b> Selective Catalytic Reduction (SCR) of NO using H <sub>2</sub> under Lean Exhaust Conditions <b>Authors:</b> Nawaf M. Alghamdi, Juan Restrepo-Cano, D. Anjum, C. Kalamaras, Jorge Gascon, and S. Mani Sarathy KAUST	<b>Title:</b> Fingerprinting Bacterial Populations In Compacted Clay Cores Imitating Well Cement <b>Authors:</b> Alexander Grigoryan, Darren Korber Saudi Aramco	<b>Title:</b> Cryogenic Carbon Capture™ Applications and Results <b>Authors:</b> Prof. Larry Baxter, Frankman, Andrew Baxter, Kyler Stitt, Chris Hoeger, Skyler Chamberlain, Eric Mansfield, Aaron Sayre, Stephanie Burt Presenter: Robert W. Dibble KAUST	<b>Title:</b> Understanding the Factors in Test Method Affecting the Measurement of Flexural Modulus of Plastics <b>Authors:</b> Visvanathan Balasaravanan, Saeed Al-Shahrani SABIC
11:50-12:10	<b>Title:</b> Additives to sustain quality of product during storage and transport under harsh climatic condition <b>Authors:</b> Somak Paul, Dughaiter-Al, Abdullah Saad SABIC	<b>Title:</b> Synthesis of Amphiphilic Hyperbranched Polyethylene-based Copolymers through a Combination of Living CWCP and ATRP <b>Authors:</b> Ahlam I. Al-sulami and Nikos Hadjichristidis University of Jeddah	<b>Title:</b> Anti-adhesive and Biocidal Thin-film Coatings for Improved Biofouling Resistance of RO Membranes <b>Authors:</b> Ismail Abdulazeez, Asif Matin, Majad Khan, Khalid Al-Hooshani, Mazen Khaled KFUPM	<b>Title:</b> Sodium Octanoate Functionalized Graphene Oxide (SO-GO): A Green Corrosion Inhibitor for Oil Well Acidizing Environment <b>Authors:</b> Kabiru Harunai, Tawfik A. Saleh KFUPM	<b>Title:</b> Headspace Sampling procedure for Difficult Aqueous Matrices Followed by GC-MS with Simultaneous FID. <b>Authors:</b> Majeed Almashnawi, Vreuls J.J., Al-Bloushi M., and Al-Sharhani S. SABIC