

**TUESDAY MORNING MARCH 21, 2017  
9:00 AM TO 11:30 AM**

|          | RELIABILITY   | HYDROCRACKING  | TECHNICAL ADVANCES  | FCC   | PLANT AUTOMATION/<br>CYBERSECURITY   | PROCESS SAFETY  |
|----------|---|--|---|---|--|---|
| 9:00 AM  | <b>Enhancing Refinery Reliability and Availability through Online Corrosion Monitoring</b><br>Tom Champlin<br>Permasense<br><b>AM-17-31</b>                       | <b>Hydroprocessing and Hydrocracking DAO: Achieving Unlimited Cycle Lengths with the Most Difficult Feedstocks</b><br>David Schwalje<br>Axens, NA<br><b>AM-17-35</b>                               | <b>Novel Approach to Controlling Contaminant Levels in Vacuum Gas Oil</b><br>Kaushik Majumder<br>Shell Projects & Technology<br><b>AM-17-40</b> | <b>Improvements in FCCU Operation through Controlled Catalyst Withdrawals at a Marathon Petroleum Refinery</b><br>Martin Evans<br>Johnson Matthey<br><b>AM-17-45</b>                      | <b>ICS Cybersecurity: Protecting the Industrial Endpoints that Matter Most</b><br>Eddie Habibi<br>PAS<br><b>AM-17-50</b>                       | <b>Process Safety Site Assessment Program – Promoting a Culture of Process Safety</b><br>Andrew Broadbent<br>American Petroleum Institute<br><b>AM-17-55</b>                                |
| 9:30 AM  | <b>New Perspectives on Refinery Corrosion, Integrity Management, Communications and Optimizing Opportunity Crudes</b><br>Kjell Wold<br>Emerson<br><b>AM-17-32</b> | <b>Leveraging Hydrocracking to Upgrade Heavy, Low Value Streams</b><br>Adrienne Van Kooperen<br>Criterion Catalysts & Technologies<br><b>AM-17-36</b>  | <b>Improve Energy Efficiency of DWCs with Overhead Heat Integration</b><br>Manish Bhargava<br>GTC Technology<br><b>AM-17-42</b>                 | <b>Performance Assessment of Feed Nozzle Upgrades</b><br>David Hunt<br>Shell Global Solutions<br><b>AM-17-46</b>  | <b>Cyber Security for Operational Technology – Lessons Learned, from Super Majors to Independents</b><br>Gavin Mead<br>KPMG<br><b>AM-17-51</b> | <b>Process Safety Site Assessments – MI Results – The Good, the Bad and the Ugly</b><br>John Reynolds<br>Intertek<br><b>AM-17-56</b>  |
| 10:00 AM | <b>Minimum Disruption Plan (MDP) to Asset Life Extension</b><br>Brian Murphy<br>Advisian / WorleyParsons<br><b>AM-17-33</b>                                       | <b>Repurposing Existing Hydroprocessing Assets to Maximize Refinery Gross Margin</b><br>Jay Parekh<br>Chevron Lummus Global<br><b>AM-17-37</b>   | <b>Explosive Rate Increases Using Shaped Charges</b><br>James Esteban<br>Criterion Catalysts and Technologies L.P.<br><b>AM-17-39</b>           | <b>Motiva Unlocks Value in the FCCU Through an Innovative Catalyst Solution from Rive Technology and Grace Catalysts Technologies</b><br>Karthik Rajasekaran<br>Motiva<br><b>AM-17-47</b> | <b>Cyber Security Issues Facing the Petrochemical Industry</b><br>Jonathan Pollet<br>Red Tiger Security<br><b>AM-17-52</b>                     | <b>What is Your SIS Doing When You're Not Watching?</b><br>Mark Carrigan<br>PAS<br><b>AM-17-57</b>  |
| 10:30 AM | <b>The Importance of Pyrometer Temperature Measurement Corrections to Safe and Reliable Reformer Operation</b><br>Oliver Smith<br>Air Products<br><b>AM-17-34</b> | <b>Understanding Catalytic Solutions for Increasing Middle Distillate Yields</b><br>Brian Watkins<br>Advanced Refining Technologies<br><b>AM-17-38</b>   | <b>Where do RIN Obligations Belong?</b><br>Mark Broadbent<br>Wood Mackenzie<br><b>AM-17-43</b>  | <b>An Action Plan to Improve FCC Unit Performance at the Marathon Galveston Bay Refinery</b><br>George Yaluris<br>Albemarle Corporation<br><b>AM-17-48</b>                                | <b>Drone Cyber-Physical Attacks against Industrial Wireless</b><br>Jeff Melrose<br>Yokogawa<br><b>AM-17-53</b>                                 | <b>Transforming the Safety Culture – Luberef Case Study</b><br>Alfonsius Ariawan<br>DuPont Sustainable Solutions<br><b>AM-17-58</b>   |
| 11:00 AM |   | <b>MIDW™ Technology as a Drop-in Catalyst Solution: Benefits of Upgrading to a Highly Isomerization-Selective Distillate Dewaxing Catalyst</b><br>Kathryn Peretti<br>ExxonMobil<br><b>AM-17-41</b> | <b>RINs, Biofuels, and Margins: Outlooks and Strategies for RFS Compliance</b><br>Paul Niznik<br>Argus<br><b>AM-17-44</b>                       | <b>Iron Poisoning Investigations Enable Opportunities for Success</b><br>Alexis Shackelford<br>BASF<br><b>AM-17-49</b>  | <b>Life Cycle Management for Non-SIS IPL's</b><br>Keith Farrell<br>K and K Process<br><b>AM-17-54</b>  | <b>Leadership's Role in Catastrophic Incident Prevention - Developing Influence through the Principals of High Reliability Safety</b><br>Michael Snyder<br>DEKRA Insight<br><b>AM-17-59</b> |