2006 NPRA Annual Meeting Technical Program

Monday, March 20, 2006 2:00 pm to 5:00 pm				
ISSUES SESSION	ULSD HYDROTREATING	FCC OPERATIONS	CRUDE OIL FLEXIBILITY	PLANT OPERATIONS

Lessons Learned from Katrina
• David Kortum
  U.S. EPA
• Michele Joy
  Association of Oil Pipelines
• Jim Greenwood
  Valero Energy Corporation
	Strategies for Converting High-aromatic Streams into Ultra Low Sulfur Distillate
	Stephen McGovern, PetroTech Consultants LLC – AM-06-08
		FCC Operations Benchmarking: A Valuable Tool for Identifying Opportunities for Improved Profitability
		C. J. Farley, Engelhard Corporation – AM-06-11
			Design of a Crude/Vacuum Unit Revamp for Refinery Flexibility
			Ryan Spangler, Burns & McDonnell and Tom Hanke, ConocoPhillips – AM-06-14
				Lessons Learned from CSB Investigation of BP Texas City Accident
				Bill Hoyle, U.S. Chemical Safety Board – AM-06-19

	Solutions to Common Problems in Scoping, Designing, Implementing and Operating ULSD Units Scott Sayles KBC Advanced Technologies, Inc. – AM-06-07	**Development of a Refinery SOx Emission Reduction Strategy at the Chevron Canada Ltd. Burnaby Refinery** Michael Maholland Intercat, Inc. – AM-06-12	**Revamp Existing Units to Process Less Expensive Crude Oils** Rashid Iqbal, KBR – AM-06-15	**Effective Procedural Operations** Richard Kucharyson Honeywell – AM-06-20
	Severe Gas Oil Hydrotreating Using IsoTherming Michael Ackerson Process Dynamics, Inc. – AM-06-09	**Double Riser FCC - An Opportunity for the Petrochemical Industry** Andrea Pinho Petróleo Brasileiro S.A. – AM-06-13	**Upgrading Residuum to Finished Products in Integrated Hydroprocessing Platforms - Solutions and Challenges** Sigrid Spieler, Chevron Lummus Global – AM-06-64	**Low Investment Energy Cost Reduction Methodology Consistently Delivers** Eva Heyman Shell Global Solutions (US) Inc. – AM-06-23

RFS Implementation Panel
Moderator: Steve Cousins Lion Oil
• Paul Machiele
  U.S. EPA
• Mike Leister
  Marathon Petroleum Company LLC
• Eugene Burden
  Tesoro Petroleum Corporation
	No Need to Trade ULSD Catalyst Performance for Hydrogen Limits: SmART Approaches
	Charles Olsen
	Advanced Refining Technologies – AM-06-06
		Recent Commercial Experience in Improving Refinery Profitability with Grace Davison Alumina Sol Catalysts
		Natalie Petti, Grace Davison – AM-06-68
			Changing Refinery Configurations for Heavy and Synthetic Crude Processing
			Gary Brierley, UOP LLC – AM-06-16
				Global Deployment of Best Practices
				Ralph Phillip, Valero Energy – AM-06-22

	ULSD: Ensuring The Unit Makes On-Spec Product George Hoekstra, BP Chemicals – AM-06-47	**Evolution and Recent Advances in Third Stage Separator (TSS) Technology for Applications in the FCC Process** Ye-Mon Chen, Shell Global Solutions (US) Inc. – AM-06-62	**Economic Extraction of FCC Feedstock from Residual Oils** Phillip Niccum, KBR – AM-06-18	**DynaWave Wet Gas Scrubbing: A New Alternative for Claus Unit Tail Gas Treating** Steve Meyer, MECS, Inc. – AM-06-61
	Commercial Experience In North American ULSD: Early Learnings and a Glimpse into the Future Kevin Carlson, Criterion Catalysts & Technologies – AM-06-45	**Novel Concepts for an Overall Refinery Energy Solution** Keith Couch, UOP LLC – AM-06-10	**Gasification for Refinery Applications** Bill Trapp, Eastman Gasification Services Company – AM-06-17	**Afraid of the Dark? Not with Thermal Imaging** Glen Francisco, L-3 Communications Infrared Products – AM-06-21

		Tuesday Morning March 21, 2006 9:30 am To 12:00 pm		
ISSUES	HYDROCRACKING	CRUDE OIL SUPPLY	PETROCHEMICALS	LUBRICANTS & WAXES
ULSD-Refinery to Retail Panel • Cheryl Trench, Allegro Energy Consulting • Timothy Columbus, Collier, Shannon, Scott PLLC • Paul Moote, Sinclair Oil Corporation	**LCO Hydrocracking at Moderate Pressures** Bill Novak, ExxonMobil Research and Engineering Company – AM-06-26	**Markets for Canadian Oil Sands Products** Steven Kelly, Purvin & Gertz, Inc. – AM-06-28	**Natural Gas Supply** David Friedman NPRA – AM-06-24	**Trends in Lube Refining** Jamie Brunk, Solomon Associates – AM-06-60
	The Era of ULSD: New Challenges and Opportunities for Hydrocracking Processes Michael Hu, Criterion Catalysts & Technologies, AM-06-46	**A New Approach for Heavy Oil and Bitumen Dilution** Brian Hedrick, UOP LLC – AM-06-29	**Middle East Petrochemical Producers: Do They Have A Competitive Advantage?** Thomas Manning, Purvin & Gertz, Inc. – AM-06-33	**GTL Base Oils: Countdown to Delivery** Gregg Skledar, Sasol Chevron Consulting Limited - AM-06-66
Refining Capacity • Harry Quarles, Booz Allen Hamilton, Inc. • Glenn McGinnis, Arizona Clean Fuels • Lawrence Kumins, Congressional Research Service	**Integrated Hydrogen Solutions: Combining Hydrogen Recovery and Optimized Steam Reforming** James Fleshman, Foster Wheeler North America Corporation – AM-06-27	**New Chemical Processes Removes Crude Oil Contaminants** Jerry Weers, Baker Petrolite – AM-06-31	**Petrochemicals and the Price of Oil** John Jenkins, Jacobs Consultancy – AM-06-32	**PC–10: Progress and Timeline Summary** William Runkle, The Valvoline Company – AM-06-69
	Temperature Accuracy and Low Sulfur Requirements Michael Strebel, Gayesco LLC – AM-06-57	**New Electrostatic Technology for Desalting Crude Oil** Gary Sams, NATCO Group Inc. – AM-06-30	**Certainty of Outcome in Uncertain Times: Efficient Execution of Large-Scale Capital Projects in an Era of Rapid Growth** Amos Avidan, Bechtel Corporation – AM-06-34	**Dexron®-VI: Automatic Transmission Fluid** Steven Kemp, General Motors Powertrain – AM-06-58
	Innovative Hydrocracker Fractionation Modification to Process High Sulfur Crude Feed Ken Sherman, Colt Engineering Corporation – AM-06-25	**Calcium Removal and It's Impact on Downstream Processes** Sandra Garcia-Swofford, Nalco Company – AM-06-35	**Commodity Management Strategies for Newest Challenges** Paul Weissgarber, A.T. Kearney, Inc. – AM-06-65	**Advances in Food-Grade Lubricants** Joe Kaperick, Afton Chemical Corporation – AM-06-67

Tuesday Afternoon March 21, 2006 2:00 pm To 4:00 pm				
MANAGEMENT	GASOLINE PROCESSES	RELIABILITY	PLANT AUTOMATION	WORKFORCE ISSUES
Refining Outlook 2006 Michael Leger, Turner, Mason & Company – AM-06-37	**Impact of the Ethanol Mandate on U.S. Gasoline Supply** Scott Jensen, Baker & O'Brien, Inc. – AM-06-38	**Coke Drum Design: Reliability Through Innovation** Coby Stewart, Chicago Bridge & Iron – AM-06-48	**A Refinery of the Future (Plant Automation View)** Mike Sarli, ExxonMobil Research and Engineering - AM-06-53	**A Holistic Approach to Safety: Methodology for Improvement** Peter Jofriet, Honeywell Process Solutions – AM-06-44
Potential Impact of GTL Commercialization on the Fuels and Specialty Product Markets Iraj Isaac Rahmim, E-MetaVenture, Inc. – AM-06-36	**Gasoline Production in the Post Energy Bill, Benzene Restricted World** Jill Meister, UOP LLC – AM-06-39	**Business Benefits of an Asset Performance Management Initiative** Marty Moran, Meridium Inc. – AM-06-51	**Cyber Security and Your Plant's Bottom Line** Steve Elwart, Ergon Refining, Inc. – AM-06-56	**Moving to World Class Safety** Darrell McQuigge, Colt Engineering Corporation – AM-06-59
Shutdown, Revamp or Upgrade – The Big Question Jennifer Pearse, Det Norske Veritas (US) Inc. – AM-06-63	**Catalytic Reformer Modifications to Increase Refinery Profitability at Frontier El Dorado Refining Company** David Dotson, Frontier Oil Company – AM-06-40	**Real-time Management of Condition-Based Plant Integrity** Milton Altenberg Quest Tru Tec and Emil Pena, Quest Integrated – AM-06-50	**Refinery Operational Planning Using Rigorous Optimization** Lanny Carr, Invensys Process Systems – AM-06-55	**Succession Planning For the Maintenance Workforce** Clarence Trowbridge, BP and Barbara Trautlein, Systems Research and Consulting - AM-06-42
The New Competitive Edge: Integrating Physical and Market Data In Real Time Jonathan English, Allegro Development – AM-06-52	**The AlkyClean® Alkylation Process: New Technology Eliminates Liquid Acids** John Gieseman, ABB Lummus Global Inc. – AM-06-41	**Asset Management: If You've Got It, Optimize It!** Richard Morgan, Celerant Consulting, Inc. – AM-06-49	**ULSD Production, Prediction, and Monitoring with Advanced Simulation Tools** Robert Ohmes, KBC Advanced Technologies, Inc. – AM-06-54	**The All Out War for Talent** Stephen Toups, Turner Industries Group, LLC - AM-06-43