

2010 Reliability and Maintenance Conference Workshop Descriptions

Wednesday	Projects	Maintenance Strategies	Procurement	Maintenance Tools	Reliability	SMI	Turnarounds
10:00 am	<p>Improving Productivity on Union Projects and Labor Supply/Demand Forecasting Model</p>	<p>A New Response to Failures</p>	<p>Tools for Contractor Service Entry This presentation highlights a program developed by Chevron Phillips Chemical Company that integrates cost tracking, forecasting and timekeeping through SAP into a simple and user-friendly tool. This tool was piloted on a Turnaround in 2009 and has since been used in almost every Chevron Phillips facility for various Turnarounds and major projects.</p>	<p>Root Cause Failure Analysis (RCFA) for Dummies Root cause failure analysis is probably one of the most misunderstood processes used in asset management... This presentation reviews the critical success factors for performing an effective root cause failure analysis. It explains the organizational support mechanisms required to perform an effective RCFA and outlines the fundamental steps for performing a RCFA. A review of the basic investigation techniques required to ensure accuracy and objectivity in analysis is provided.</p>	<p>BP - Texas City Reliability Accelerator Effort Key foundational elements for a world class reliability program were established for BP's largest and most complex refinery in 8 months versus an industry average of 3 years. In that time BP Improved equipment inventory accuracy to 97%; validated and standardized a list of 75,000 assets; developed equipment strategies for 99% of the equipment population; increased the maintenance coverage of critical equipment with maintenance strategies to 99%; and corrected 1,700 drawing discrepancies.</p>	<p>API Fatigue Management Standard Update This presentation will cover the main aspects of a new standard on "Fatigue Risk Management Systems for Personnel in the Refining and Petrochemical Industries." Areas to be covered include staff-workload balance, training & education, work environment, individual risk assessment & mitigation, periodic review of FRMS and continuous improvement and hours of service recommendations.</p>	<p>Long Range Turnaround Plan, Conceptual Development and Work List Development Most TAR processes focus on the back end of TAR development (planning & execution), but influence is never greater than during the strategy phase. This presentation will discuss how to maximize the value of the TAR investment through proper strategic and conceptual development and work list selection aligned with the strategic business objectives.</p>
1:15 pm	<p>How to Get the Most From Your EPC Contractor This presentation will review key aspects of a contractor's execution of a project, as well as the best way to interface with the contractor and get the most value from the supplied services.</p>	<p>Maintenance Discussion Session</p>			<p>Gas Plant Improves Asset Efficiency and Value through Integrated and Predictive Facility Integrity This workshop will address the necessity of changing the way the strategic and operational management of physical assets in this industry is</p>	<p>The Blame Virus and its Antidote The human tendency to blame other people and things for the things that go wrong in our lives is near the root of everything that goes wrong. It's like an infectious, disastrous virus. Fortunately, there is an antidote to</p>	<p>Turnaround Peer and Readiness Reviews Peer and readiness reviews, when used properly, can be a very effective tool for optimizing turnaround planning and execution efforts to minimize risks to the site and increase the probability of attaining anticipated</p>

					<p>being performed.</p> <p>Using a real world example, we will demonstrate how advanced analytical software technology and dedicated applications for automatic symptom and pattern detection can transform maintenance from being preventive or reactive to being driven by the accurate prediction of equipment problems.</p>	<p>the blame virus. This presentation will describe the antidote in very practical terms and challenge you to lead by example.</p>	<p>cost, duration and business goals . This presentation describes the philosophy, the process, and guidance to incorporate the turnaround process into a plant process as well as control and management systems. The process optimizes not only the mechanical execution effort but also the process decommissioning and re-commissioning plans. Implementing such a process will enable plant personnel to better understand the impact of critical activities on site asset risks and reduce them to an acceptable level.</p>
2:45 pm	<p>How to Get the Most from Your EPC Contractor This presentation will review key aspects of a contractor’s execution of a project, as well as how to best interface and get the most value from the supplied services.</p>	<p>Reliability Improvement of the Third Kind – Direct Contact Everyone is looking for a step change in the safety or reliability of their organization that has an immediate and positive impact. While developing a work process for improving the reliability of a plant on the West Coast it became apparent that developing a reliability culture was important for ensuring the process would remain evergreen. One of the</p>	<p>Increase Your Reliability, Reduce Your Inventory, And Save Money This will be a joint Vendor and End User PowerPoint presentation detailing the Challenges and Solutions faced by owners and operators working in a 24/7 plant operating environment, where critical equipment down time reduces revenue and increases maintenance costs. Collaborative problem</p>	<p>Proactive and Strategic Equipment Maintenance: Changing the Game of Equipment Reliability and Maintenance Costs This workshop will present proactive and strategic asset maintenance strategies that leverage advances in technology to enable new ways to integrate asset suppliers and owner support organizations by sharing real time asset performance and information in a collaborative environment.</p>	<p>Strategy for Site-wide Performance Improvement in an Integrated Production Facility Production facilities today face a myriad of problems to reach best-in-class reliability and cost performance. This workshop consists of an overview of a recently implemented work process at the Bayer Baytown complex, leading to a strategy for selection of an</p>	<p>Sunoco Ethylene Unit Fire: Lessons Learned There was an unexpected, sudden and very large process piping rupture and fire on the evening of Sunday, May 17, 2009. The cause of the piping rupture was a localized area of external corrosion at the bottom of the pipe at a pipe support contact location. This presentation will share</p>	<p>A New Perspective to Turnaround Preparation and Execution This presentation addresses the question: “How do you successfully transition from the historic experience or “tribal knowledge” model to the present day “matrix organization” approach of preparing for and executing a turnaround?” The presenters will show</p>

		benefits of building a good reliability foundation was the unexpected, immediate positive impact on the failure rates of the equipment.	solving between the Kit Box supplier and the refinery planners, reliability, and maintenance team has increased reliability and allowed for quick maintenance response during planned and unplanned outages.	Attendees will be given practical and proven knowledge that they will be able to use in their organizations to support innovation and revolutionize how asset maintenance is performed.	appropriate problem solving methodology.	the causes of the localized external corrosion, an understanding of improvements to piping inspection practices that are needed to detect this type of deterioration in the future, and additional lessons learned.	that the Steering Team is the cornerstone of this shared leadership approach. Using both case study and industry intelligence, proven strategies and management behaviors essential to achieving an optimal level of organizational preparedness and delivering predictable competitive turnaround results will be discussed.
Thursday	AEI	Maintenance I	Procurement	Maintenance II	Reliability	SMI	Turnarounds
10:00 am	Smart Instrumentation, Asset Management Architecture	RAVE (Refinery Asset Virtualization Environment) is a unique and innovative application of 3-Dimensional Refinery Asset Models, incorporating attached contextual data from multiple sources, then, placed into a Web2.0 Virtual Room, allowing for remote collaboration and work process execution by subject matter experts, represented as avatars. The solution directly addresses business drivers of increased safety, reliability and operational performance by having decision makers provided with the information they need, associated with a manufacturing asset, in a virtual, collaborative space.	Reducing MRO Expenditure Through RFID Technology This presentation will explore some proven methods for streamlining MRO operations and tool and supply inventory management using RFID technology. Learn about the evolution of RFID and how the current state of the technology can impact your operation with immediate and long-term operational savings.	Revisions of ASME PCC-1 Bolted Joint Recommendations This presentation will review the original ASME PCC-1 Recommendations (published in 2000) and the upcoming revisions that will be published in 2010. These changes are designed not only to improve the quality and efficiency of the assembly of these joints, but will help with the efficiency of assembly.	Erase the Risk of Repeat Failures of Pumps Virtually all pump users have experienced repeat failures for decades. Elusive reasons for repeat failures often include risky design decisions made by uninformed pump manufacturers and design contractors. This presentation shows why there is a preponderance of repeat failures in industry and why reliability professionals must remedy pump failures through purposeful upgrades. We will also draw on recent experiences and technical issues which	How to Achieve World Class Maintenance Safety Performance Maintenance workers are exposed to many hazards in their everyday work yet the number of workplace injuries continues to decline. Injury-free performance requires a comprehensive strategic plan designed to create a culture of safety that reinforces positive behaviors. There are numerous common maintenance safety best practices that have been recognized and adopted by organizations who	Turnaround and Small Capital Projects Integration This presentation will share past performance and improvements related to integration of capital projects in turnarounds. It will also share tools and processes used with success by Flint Hills Resources.

					some pump manufacturers either refuse to address or simply fail to understand.	achieve world class levels of performance. This presentation will examine those best practices and demonstrate how they can be implemented at your site.	
1:15 pm	<p>Improve Your Companies Profitability with a Comprehensive Motor Maintenance Program</p> <p>Motor Repair or Replacement? The Green Solution</p>	<p>Maintenance First Level Leaders – Need Some New Ones?</p> <p>In this presentation we will discuss leadership development, especially that of first line supervisors. We promoted them into the supervisory ranks because they excelled as maintenance technicians. Now let’s give them the training and development needed to enable them to excel as supervisors. We will explicate strategies and best practices for training and developing “new” maintenance supervisors.</p>	<p>Supplier Evaluation Process</p> <p>Evaluating Suppliers is often a time consuming and burdensome process. PICS services standardize and centralize the contractor qualification process for our consortium members, lessen the administrative burden on contractors, and minimize the safety incidents for the contractors and operators.</p>	<p>Forgotten Metrics of Planning & Scheduling</p> <p>This presentation by BP Chemical and ABB will look at several metrics that have either not been explored or have fallen away from favor. Along with the metrics, the value of their contributions are discussed and how new metrics can refute or substantiate existing metrics.</p>	<p>From Fitness For Service To A Reliability Based Mechanical Integrity Program – A Journey From The Ashes To Sustained Reliability</p>	<p>Facility Siting: Beyond Compliance to Creating Business Value</p> <p>This presentation will inform participants of high level provisions of the new Facility Siting standards of API RP-753, OSHA's focus on Facility Siting under their NEP inspections, and a case study on how global energy companies are capitalizing on the worker productivity, asset optimization, and plant reliability benefits that are possible when implementing facility siting risk mitigation strategies.</p>	<p>Transitioning to World-Class Turnaround Management: Step by Step Journeys to Successful Turnarounds</p> <p>The presentation will share the transition from the past record of inconsistent turnaround performance to a commitment to get better and to achieving World-Class Results on their recently completed turnarounds. The successful turnaround approach included integration of plant management in defining their expectations, assignment of experienced staff, timely and complete work scope definition, selection of high performance contractors and creation of a true team work environment. Presenters will also</p>

							share the innovative approaches and turnaround management approaches that created a work environment where team members felt empowered and shared a common approach to follow integrated turnaround plans and meet the established goals.
2:45 pm	The LOPA Report's Done – Now What?	Increasing Profitability and Competitive Position by Comparing the Maintenance Effectiveness of Process Plants based on All Plant Factors The presentation will describe a methodology that has been successfully applied to compare the routine labor hour performance between process units. The method entails the computation of a divisor called “EMC” that is applied similarly as plant replacement value (PRV) with the additional benefit of being computed at the more detailed levels of unit Rotating Equipment, Fixed Plant, Electrical, and Instrumentation/Control.	Maximizing Your Value From Suppliers A presentation focusing on how you as a consumer can maximize the value received from your suppliers. Have suppliers work for you and with you saving money, time, and resources.	Heat Exchanger Efficiency Recovery by Non-mechanical Means This presentation will describe ULI's experience in heat exchanger efficiency recovery without the need for mechanical disassembly. There are many factors that can impact the effectiveness of heat exchanger efficiency recovery and ULI has successful experience performing this type of work on several types of exchangers. This presentation will cover several case studies which were used to develop this methodology.	Operator Driven Reliability at Tesoro's Golden Eagle Refinery This presentation will describe Operator Driven Reliability to include objectives, operator enrollment, data analysis, and operator enhancement training.	The Top 10 Reasons Why the Best Operating Sites Have Few Mechanical Integrity Failures This workshop will feature a panel of 3-4 mechanical integrity specialists from owner-user sites outlining the top 10 reasons why some of the best operating plants have so few mechanical integrity failures and, therefore, have higher equipment availability and reliability. This workshop will focus on the human errors, management mistakes, and ignorance that cause some sites to have too many mechanical integrity failures and how some other sites manage to avoid them.	Permitting Procedures for Improving Turnaround Productivity

Friday	Project	Maintenance I	Procurement	Maintenance II	Reliability	SMI	Turnarounds
8:30 am					Reliability Discussion Session		Turnaround Discussion Session
10:15-11:30							Ethics Workshop