

Tech Talk Schedule and Descriptions

Wednesday

1:00 pm

Improved Operational Discipline and Fewer Unplanned Events with ER Technology

Christian McDermott, Voovio

Our industry has to overcome some big workforce challenges including the loss of critical expertise from retirement and the resulting downtime related to operator knowledge gaps. Turnover costs due to attrition are substantial to get new hires up to speed. These costs can impact all aspects of operations: productivity, process safety, quality, operating costs and reliability. We will show how Enhanced Reality simulators boost operator knowledge and discipline, and we will share customer impacts on operations.

1:15 pm

Simple Solutions for Field Data Management

Kevin Turpin, PK Technology

weavix™ is a single data sharing platform, built specifically for the oil and gas industry, designed to close the informational gap between owners, contractors and field personnel. weavix™ connects the workforce through a proprietary “smart” badge that enables optimization of the workflow, the schedule, the worker, equipment and pre-emptive safety intervention.

1:30 pm

Aim-Hi – KPI Software to Ensure Maintenance Excellence

Sonia Zelaya & Susan Steyn, Add Energy

Aim-Hi is a cloud-based tool that provides you with real-time analytics around your asset’s key performance indicators relating to maintenance, risk and performance.

1:45 pm

The COMPACS System

Andrey Kostyukov, DYNAMICS Scientific Product Center USA, Inc.

The real-time diagnostic COMPACS system monitors every piece of rotating and principal fix equipment health. The system automatically identifies almost all defects and malfunction in rotating equipment with probability 97-98%. Also the system detects and locates cracks in the vessels and tanks, leakages in the pipes and valves. The COMPACS system uses in-built AI which is based on the knowledge of physical rules of equipment degradation. This is why implied system provides safe reliable petroleum refining and extended uptime immediately after its commissioning.

3:30 pm

Benefits of Metal Filter Cleaning and Testing in Refinery Applications

Susie Reynolds, Carolina Filters

In refinery applications associated with Coking, HydroCracking, and FCC applications, along with sulfur removal, metal filters can be used in the final stages of production to provide a clean, high quality product free of contamination. The User has a choice to dispose of the filters & purchase new ones or have the filters cleaned & tested for re-use. Carolina Filters cleaning and testing process provides the user with a way to keep costs down by not purchasing new filters for each change-out and allows for environmentally responsible decisions on disposal vs re-claiming the filters.

3:45 pm

How to Optimize and Integrate Key Turnaround Services

Mark Gourley, Baker Hughes, a GE Company

Baker Hughes is the world leader in providing engineered and integrated turnaround solutions. With our ability to optimize and provide integrated nitrogen services and chemical cleaning services, we're able to save time and money. Our proprietary nitrogen simulation is able to optimize the nitrogen volumes and time required for cool down or hot stripping applications. By providing engineered and integrated services, we're able to give the customer a single point of contact, and reduce overhead for two of the most critical activities during a unit shutdown.

4:00 pm

TA Discover: Tower Tray Repair vs. Replacement

Robert Lasser, Woven Metal Products, Inc.

Woven Metal Products, Inc. presents their new and unique invention, US Patent# 9,981,235_B2 granted on May 29, 2018 for a new tray deck orifice repair washer. WMP's new repair washers provide tower service crews a fast and reliable solution for badly worn floating tray deck panel openings. The product does not require special tools, modifications, or welding for installation. These patented washers ensure that your new floating valve elements will stay securely mounted inside your existing tray deck panels, prevent further damage, and restore your tower's ability to operate efficiently, as originally designed. The washers are available in many metal alloys to match your existing tray valves.

4:15 pm

Methods, Motivations and Gains of the Window Section Resection Method for Column/Vessel Turnarounds

Whitney Strickland, Tower Force

Refineries and gas plants along the US Gulf Coast typically have tight footprints putting space at a premium and the crane size prohibitive due to lift radius. Tower Force has found that their window section resection (WSR) method is an excellent and cost saving alternative to more traditional methods that involve complete removal of the top section of the column or tower (also called the 'lift down top half' approach).

4:30 pm

Modular Retubing of Existing Heaters and Steam Reformers

Adam Haskin, Wood PLC

Foster Wheeler Fired Heaters, a Wood company, has instituted modular retubing of existing heaters and steam reformers. Working closely with owners on design, constructability, shop module fab and field module assembly to reduce TAR costs and schedule. Wood has developed modularization strategies for structural and pressure containing components as well as entire heaters to reduce installation time and costs. One other critical driver for performing modularization in a controlled shop environment is quality of welding, NDE, and surface preparation and finish, thereby reducing schedules and overall costs while not compromising on quality.

4:45 pm

Live Simulation: Digital Shutdown, Turnaround and Outage - Transform Shutdown, Turnaround and Outage Performance with Digital STO™

Chris Bohill, Mobideo

Join Mobideo and take part in an exciting, hands-on Digital STO simulation. You'll use intrinsically safe tablets to navigate a procedure as a skilled technician, real-time alerts will trigger craft handover workflow, and as an Inspector you'll report a delay. Then take the role of the Connected Manager™ and witness firsthand the real-time visibility for better decisions, faster on Mobideo's Digital Wall Chart. When it's all done we'll look at the analytics to drive process improvements for the next STO.