



PANEL DESCRIPTIONS

(All Panels are Industry-Wide)

Tuesday, January 31, 2017

1:30 PM – 3:00 PM

Solving Difficult Bolted Joint Problems

This 90 minute panel session is designed for knowledge sharing on the topic of challenging flanged joints. Panelists comprised from industry gasket manufacturers, installers, and owner/operators will share experiences and best practices regarding actual flanged joint assemblies. The session is formatted with brief presentations followed by an interactive dialogue in which attendees are encouraged to ask the panel questions on flanged joint challenges.

Moderator: Keith Guenther, Shell

Panelists: Ben Hantz, Valero, Warren Brown, Integrity Engineering Solutions, Joel Baulch, Teadit, Vivek Mittal, Hydratight, Jamal Jamalyaria, Flexitallic

1:30 PM – 3:00 PM

NDE Qualification

This panel discussion will review the current results and trends in the API QUTE exams as well as plans and timing of new API ultrasonic performance exams and certifications. A new draft API Publication 587: Guidance for the Development of Ultrasonic Examiner Qualification Programs will be reviewed. The panel will consist of owner/operators who currently manage their own in-house NDT technician qualification programs. Recent technician performance trends, barriers to performance and the role of training and new technologies will be open for discussion.

Moderator: John Nyholt, API QUTE Program Administrator

Panelists: Mike Sens, Chevron, Dave Bajula, ACUREN/ASNT President

3:30 PM – 5:00 PM

Unmanned Aircraft Systems

Over the past several years, Unmanned Aircraft Systems (UAS, not “drones”!) have emerged to become part of our daily experience. Building on the continuing evolution of UAS, companies are considering a broad range of applications for upstream, midstream, and downstream operations. This panel will provide a comprehensive review of the state of UAS and the range of current and planned applications of these platforms to improve operations, integrity, and safety of assets across all sectors. The panel will include an update on regulations pertaining to UAS, recent developments of UAS within and outside of the petroleum industry, and case studies on successful deployment of UAS for various missions and objectives. One particular area of focus for the panel will be the integration



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of remote sensors on UAS for safety and asset inspection and management. A Q&A session with the panelists will follow the presentations for further discussion on UAS application and integration, and the continuing evolution and next steps for UAS policy and technologies. Panelist will be from owner/operator companies, UAS commercial service providers, and government agencies and trade associations.

Moderator: John O'Brien, Chevron

Panelists: Dyan Gibbens, Trumbull Unmanned, David Yoel, American Aerospace Technologies, Inc., Al Brunner, FAA, Suzanne Lemieux, API

3:30 PM – 5:00 PM

Corrosion Challenges Resulting from Processing New and Opportunity Crudes (Oil Sands, Shale Oil, Bakken)

This session is designed to inform and educate owner/users, inspectors, reliability and process engineers of the challenges and risks associated with processing shale crude or LTO (light tight coils). Panel members will present case studies from their experience processing these crude oils, followed by a Q&A session with the audience. Panel members will include owner/users and representatives from chemical treating companies.

Moderator: Mike Urzendowski, Valero

Panelists: Mike Sober, Phillips 66, George Duggan, Baker Hughes, Jim Johnson, Marathon Petroleum, Sam Lordo, NALCO, Art Jensen, PBF Energy

Wednesday, February 1, 2017

10:30 AM – 12:00 PM

Inspection of Buried Piping

This panel will address the challenges of inspecting buried piping across the full-range of petroleum industry operations, including refineries, gas compressor facilities, terminals, tank farms, and booster/pump stations. Engineering design and construction of most refineries and other petroleum facilities, some of which have extensive buried piping networks, did not consider the need to provide access to the buried components for inspection. With the increased focus on aging infrastructure and facility integrity, technology developments to address challenging to inspect conditions at petroleum facilities have expanded substantially over the past decade. A range of emerging technologies and innovative approaches to address the challenges are being developed and evaluated, with the results being applied to improve facility risk modeling and threat management and mitigation. The panel will address the factors that influence the selection of specific technologies for inspection across a range of conditions and operations, and discuss continuing work to supplement the current inventory of



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emerging inspection technologies. Performance statistics will be provided where available. The panel will include owner/operators with substantial experience in inspection of buried piping and NDE inspection subject matter experts that are for each of inspection technology evaluated are also presented.

Moderator: Rafael Rengifo, Phillips 66

Panelists: Richard McNealy, Chevron Energy & Technology Company, Mark Piazza, Colonial Pipeline Company, Mark Stone, Sonomatic

1:30 PM – 3:00 PM

Integrity Operating Windows

This 90 minute panel session is designed to provide practical guidance on developing and implementing Integrity Operating Windows (IOW) programs based on the API RP 584 document. Presentations will include both the approach to setting up an IOW program along with some of the pitfalls and learnings resulting from the first generation of implementation. Examples of significant “finds / saves” resulting from the program along with a cost benefit analysis will also be presented. Participating on the panel will be representatives from Phillips 66, Valero, and BP among others which also happens to include the Chair, Vice-Chair and Master Editor for the original Standard development.

Moderator: Clay White, Phillips 66

Panelists: Mike Urzendowski, Valero, John Reynolds, Intertek, Steve Bolinger, BP, Chuck Koske, Chevron

1:30 PM – 3:00 PM

What is the Future of RBI?

This 90 minute session is designed to update the RBI community with anticipated changes in RBI as well as providing a forward-thinking discussion of where we need to improve or add to RBI. Panelists will include current API RP 581 members and RBI community members. Audience participation through questions and answers, as well as opinion discussion is highly encouraged.

Moderator: Brent Ray, Marathon Petroleum Corporation

Panelists: Lynne Kaley, Trinity Bridge, LLC, Tony Poulasichidis, Anadarko, Mark Geisenhoff, Flint Hills Resources, Vinay Nihilani, ConocoPhillips, Keith Lapeyrouse, Consultant, Daniel Peters, Structural Integrity Associates, Inc.

3:30 PM – 5:00 PM

Corrosion Under Insulation (CUI)

This Panel will focus on current and emerging NDT technologies and program strategies for detection, evaluation and monitoring of CUI damage mechanisms for ferrous and non-ferrous and material forms for all petrochemical business segments. A brief overview of NDT technologies, advantages and limitations will be presented with examples of user experience. Panelists will include



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Owner/Operators who are currently in various stages of CUI inspection program design and implementation as well as key engineering consultants in risk and engineering analysis.

Moderator: John Nyholt, John Nyholt Consulting, LLC

Panelists: Brian Fitzgerald, Stress Engineering Services, Mike Sens, Chevron, Mike Nichols, Marathon Petroleum, Ray Konet, Valero

3:30 PM – 5:00 PM

High Temperature Hydrogen Attack

This panel session is focused on the response from owner-users to the lessons learned from industry incidents and the recently-revised, 8th Edition of API RP 941, Steels for Hydrogen Service at Elevated Temperatures and Pressures in Petroleum Refineries and Petrochemical Plants. Panel members will discuss how they have modified their current inspection practices and philosophy related to topics such as defining equipment susceptibility to HTHA, defining inspection scope and techniques, and determining when equipment needs to be replaced as opposed to depending upon inspection practices. What's new since the last Summit on HTHA Inspection Technology?

Moderator: Don Chronister, Valero

Panelists: Jim McVey, Tesoro Refining and Marketing Company, Jorge Hau, Shell, Thomas Guillot, CF Industries, Dana Williams, Marathon Petroleum Corporation, Art Jensen, PBF Energy

Thursday, February 2, 2017

8:30 AM – 10:00 AM

API Subcommittee on Inspection Documents

This 90 minute session is designed to update Owner-Users and Service Providers on the latest changes made to the Sub-Committee on Inspection (SCI) Codes and Standards. These documents establish our Industry's recognized and generally accepted good engineering practices and are essential for establishing compliance mechanical integrity programs. Specifically, updates will be provided for recently revised / published documents, including API 570 / RP 574, RP 572, RP 580 / BRD 581, RP 576, RP 578, and reviews on standards that are in progress (RP 586 and 587). Key updates to these documents will be provided by the Chair or Vice-Chair for the Task Groups that were responsible for updating the Code / Standard.

Moderator: Clay White, Phillips 66

Panelists: John Reynolds, Intertek, Brent Ray, Marathon Petroleum, Ray Knoet, Valero, Roy Schubert, Shell, Josh Yoakam, Holly Frontier



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10:30 AM – 12:00 PM

API Subcommittee on Corrosion and Materials Documents

This 90 minute panel will focus on API Subcommittee on Corrosion and Materials Documents (with exception of the API 934 Series) and highlight recent updates and new documents issued since the last Summit. Mini talks will focus on individual documents and present technical changes and overviews of the new documents with a focus of what Integrity specialists should be aware of. API RP 941 and TR 941 Updates lowering the CS HTHA curve; API RP 582 Welding new Edition; API RP 970 CCD's; API RP 939-C Sulfidation; API RP 945 Amine; API 942 A Materials, Fabrication, and Repair Considerations for Hydrogen Reformer Furnace Outlet Pigtails and Manifolds; API 571. Primary authors and task group leads with first-hand knowledge will present the information. Bring your questions.

Moderator: David Moore, BP

Panelists: Vance McCray, ExxonMobil, Don Chronister, Valero, Greg Balionis, ExxonMobil, Gerrit Buchheim, Becht Engineering, Jeremy Staats, Becht Engineering, Marc McConnell, Versa Integrity

10:30 AM – 12:00 PM

RP 1176

API RP 1176, Recommended Practice for Assessment and Management of Cracking in Pipelines, provides comprehensive guidelines for pipeline operators to address one of the principle threats to pipeline integrity. While the RP is a valuable tool, many operators don't have significant, practical experience in implementing the processes included in the RP. This panel session will provide a review of the key elements of the RP and detailed presentations on the approaches being taken by some pipeline operators for initial implementation of the RP. The presentations will focus on the use of inspection technologies to assess pipeline systems, and development of new technologies that have the potential to improve detection, characterization, and assessment/failure pressure modeling of cracks in pipeline steels.

Moderators: Pablo Cazenave, Blade Energy Partners

Panelists: Henry Green, NDT Global, Thomas Beuker, ROSEN Group, Mike Stackhouse, Phillips 66, David Katz, Williams