

# CONFERENCE DAY ONE: TUESDAY NOVEMBER 13<sup>th</sup>, 2018

8:00am	COFFEE AND PASTRIES		
KEYNOTE LECTURES			
8:30am to 8:45am	1: Chairman's Welcome: Coping with Age-Related Damage Mechanisms – Ken Kirkham, Principal Engineer, E <sup>2</sup> G  The Equity Engineering Group, Inc.		
8:50am to 9:20am	2: Fitness for Service Evaluation of a Large Brine Tank – Hardin T. Wells, Fellow - Mechanical Tech Service, Albemarle Corporation		
9:25am to 9:55am	3: Creating the Next Generation of Career Engineers and SMEs – Dan DeVine, Valve and Piping Materials Consultant, Midland Engineering		
10:00am to 10:45am	COFFEE & EXPO BREAK		
10:45am to 12:30pm	MORNING PRESENTATION SESSIONS		
	Management Track: Life Extension & Assessment	Non-Metallics and Fibre-Reinforced Polymers (FRP)	Asset Life Extension with Titanium (Pt. 1)
Moderators:	Moderator TBD	Michael Stevens, Principal Scientist, Ashland Composites	Chris Wilson, Technical Director, Uniti Titanium
10:45am to 10:50am	Session Welcome	Session Welcome	Session Welcome
10:50am to 11:10am	<b>Bring New Life into Older Equipment: Increasing Run-Length in Aging Heat Exchangers</b> – Russell Phillion, Founder & President, Orange Cleanteach Inc., Toronto, Canada	<b>Fiber Reinforced Polymers: Alternative Material of Construction to Control Corrosion in Infrastructure Applications</b> – Michael Stevens, Principal Scientist, Ashland Composites	<b>Clad Equipment Failures</b> – John G. Banker, Consultant, Clad Metal Consulting
11:15am to 11:35am	<b>CUI - Repair and Prevention Using a High Performance Industrial Maintenance Coating and CUI Resistant Insulation, the Belt and Suspenders Approach</b> – Gary Whittaker, Sr. Fellow, Materials Engineering, Valentus Special Chemicals	<b>Your Aging FRP Assets: Myths and Facts</b> – Jo Anne Watton, CEO, UTComp Inc	<b>Clad Metal Repairs – How Thin is Too Thin?</b> – Alex Orr, Welding Engineer, Tricor Metals
11:40am to 12:00pm	<b>Life Extension of Aging Pipes with Cured-In-Place-Pipe Process</b> – Bill Moore Product Leader – CIPP Market, AOC Resins; Ron Adams Corrosion Control and Technical Services, AOC Resins	<b>Managing Aging Infrastructure: Inspection, Maintenance &amp; Repair of Non-Metallic, Polymeric Lining and Coating Systems</b> – Dale Heffner, Electro Chemical Engineering & Mfg. Co., Superior Dual Laminates	<b>Utilization of Cold Sprayed Reactive Metal Alloys for Titanium Equipment Repair</b> – Murray Pearson, Hatch
12:05pm to 12:25pm	<b>Managing Civil and Structural Assets in Aging Plants</b> – Steven Altstadt, PhD, PE, Wiss, Janney, Elstner Associates, Inc.	<b>In Service and Out of Service Critical Inspection Areas of FRP Vessels and Process Equipment</b> – Thomas Haber, Quality Assurance Program Manager, Maverick Applied Science, Inc.	<b>Options to Replace an old Pressure Vessel</b> – Pete Philippon, Director Project Management/ Engineering, Tricor Metals
12:30pm to 2:00pm	BUFFET LUNCH & EXPO BREAK		
2:00pm to 3:40pm	AFTERNOON PRESENTATION SESSIONS		
	Management Track: Operations & Asset Management	Failures, Solutions and Repairs	Asset Life Extension with Titanium (Pt. 2)
Moderators:	Roy Grichuck, Director - Piping, Fluor Enterprises, Inc.	Moderator TBD	Rob Henson, Manager-Business Development, VSMPO
2:00pm to 2:05pm	Session Welcome	Session Welcome	Session Welcome
2:05pm to 2:25pm	<b>Intelligent Servicing to Save Time and Money for Aging Plant Shutdowns</b> – Scott Grunwald – Director, Shutdown, Turnaround & Outage (STO) Projects, Lifecycle Services	<b>SMR Furnace Catalyst Tube Cold Inlet Failures</b> – Sam Schleh, Materials & Corrosion Engineer, BP Cherry Point Refinery	<b>Renewal of Aging and Deteriorated Infrastructure Using Titanium Alloy Bars</b> – Christopher Higgins, Oregon State University
2:30pm to 2:50pm	<b>Managing Valve Performance in Aging Plants (Risk &amp; Reward)</b> – Dave Anderson, Score Diagnostics	<b>Case Study: Implications of Using Modern Inspection Techniques on Historic Equipment</b> – Scott D. Bouse, PE, Wiss, Janney, Elstner Associates, Inc.	<b>Corrosion Failures and Mitigation in Hydrided Environments</b> – Dennis Schumerth, Principal, Titanium Tubular Consultants
2:55pm to 3:15pm	<b>Approach to Hazardous Area Classification Compliance in an Aging Facility with Limited Resources</b> – James (Jim) E. Johnston, P.E., Principal Process Electrical Safety Engineer, Bath process Safety Management	<b>Nondestructive Measurement of Mechanical Strength, Ductility, and Toughness for Quality Control and Integrity Management</b> – Soheil Saf-fari, Mechanical Engineer, Massachusetts Materials	<b>Experience with Titanium Grade 2 for High Temperature Subsea Applications in Oil and Gas Industry</b> – Maria Maksheeva, Development Engineer, ClampOn AS; Geir Instanes, VP, ClampOn AS
3:20pm to 3:40pm	<b>Smart Condition Monitoring Using Machine Learning</b> – Dr. Patrick Bangert, CEO, Algorithmica Technologies	<b>Tank Tales: Cases of Failures and Damage of Storage Tanks</b> – Ana Benz, Chief Engineer, IRISNDT	<b>Heat Exchanger Retrofit Solutions with Low Fin Tube</b> – Craig Thomas, Director of Sales, NEOTISS
3:40pm to 5:00pm	AFTERNOON WORKSHOP SESSION		
	Management Track: Managing an Aging Workforce		
Moderator:	Emory Ford, Director Emeritus, MTI		
Panellists:	Dan DeVine, Valve and Piping Materials Consultant, Midland Engineering; Dr. Patrick Bangert, CEO, Algorithmica Technologies; Dr. Robert Freed, RLFeed Consulting		
Description:	Concurrent with the need to safely operate "Aging Plants" is a need to train a changing work force. The purpose of this session is to review the status on training methodologies and to provide guidance on the optimum methods and to have a look at emerging methodologies.		
4:00pm	WELCOME RECEPTION ON EXPO FLOOR		

# CONFERENCE DAY TWO: WEDNESDAY NOVEMBER 14<sup>th</sup>, 2018

## KEYNOTE LECTURES

8:30am to 9:25am	<b>4: Dealing with Unforeseen Damage of Pressure Equipment during a T&amp;I</b> – <i>Sayee Raghunathan, Consulting Services Department, Saudi Aramco</i>
9:30am to 9:55am	<b>5: Lessons Learned from Nuclear Power Sector and Applicability in Other Process Industries</b> – <i>Stan Hale, Senior Director-Supply Chain, MRC Global</i>

## 10:00am to 10:45am COFFEE & EXPO BREAK

## 10:45am to 12:30pm MORNING PRESENTATION SESSIONS

	Risk Identification: Risk Based Inspection (RBI) and Fitness for Service (FFS)	Non-Metallics and Fibre-Reinforced Polymers (FRP)	Materials & Corrosion Resistant Alloys
<b>Moderators:</b>	<b>Ken Kirkham</b> , <i>Principal Engineer, E<sup>2</sup>G  The Equity Engineering Group, Inc.</i>	<b>Michael Yee</b> , <i>CEO, RTConsults</i>	<b>Mel Esmacher</b> , <i>Consulting Engineer, Metallurgical Services Lab, Suez</i>
10:45am to 10:50am	<i>Session Welcome</i>	<i>Session Welcome</i>	<i>Session Welcome</i>
10:50am to 11:10am	<b>Damage Mechanism Reviews for RBI Analysis, CCD &amp; IOW: Comparisons, Pitfalls and Best Practices</b> – <i>Ken Kirkham, Principal Engineer, E<sup>2</sup>G  The Equity Engineering Group, Inc.</i>	<b>Use of Composite Nonmetallic Materials Commonly Used in Sulfuric Acid, Chlor-alkali and Pulp Facilities</b> – <i>Michael Yee, CEO, RTConsults</i>	<b>Performance of Sandvik's Hyper Stainless Steel UNS S32707 in Oil Refinery Overhead Condensers: Field &amp; Lab Results &amp; Experiences</b> – <i>Karen Picker, Applications Engineer, and Marcelo Senatore, Regional Technical Marketing Manager, Sandvik Materials Technology</i>
11:15am to 11:35am	<b>RBI-POF and FFS for Aging Equipment</b> – <i>Jesus Esquivel, Manager, Tech-inservice.com</i>	<b>Solutions for Aging or Questionable Fiberglass Reinforced Plastic (FRP) Piping Systems</b> – <i>Darryl Mikulec, Engineering Manager, Maverick Applied Science, Inc.</i>	<b>Evaluation of Corrosion Pitting in a 317L Stainless Steel Surface Condenser Tube Bundle</b> – <i>Ed Blessman, P.E. Metallurgical Engineer Technical Development Manager, Plymouth Tube Co. (Pt. 1)</i>
11:40am to 12:00pm	<b>RBI Pitfalls and Best Practices</b> - <i>Mark Harmony, Consulting Engineer, E<sup>2</sup>G  The Equity Engineering Group, Inc.</i>	<b>Extending the Life of Corroding Stainless Steel Pipe with Composite Repairs: Testing, Validation and Case Study</b> – <i>Tim Mally, Clock Spring; Buddy Powers, Clock Spring</i>	<b>Evaluation of Corrosion Pitting in a 317L Stainless Steel Surface Condenser Tube Bundle</b> – <i>Ed Blessman, P.E. Metallurgical Engineer Technical Development Manager, Plymouth Tube Co. (Pt. 2)</i>
12:05pm to 12:25pm	<b>Small Bore Piping Systems Fitness for Service Challenges</b> – <i>Dan DeVine, Valve and Piping Materials Consultant, Midland Engineering</i>	<b>Old FRP Vessel Removal to Make Way for Installation and Assembly of New Vessel</b> – <i>Terry W. Cowley, Consultant, FRP Consulting, LLC</i>	<b>Premium Urea Grade Developed for the Most Demanding Conditions</b> – <i>Kirk Ofei &amp; Alex Scheerder, Stamcarbon bv, The Netherlands; Daniel Gullberg, Sandvik Materials Technology</i>

## 12:30pm to 2:00pm BUFFET LUNCH & EXPO BREAK

## 2:00 to 4:00pm AFTERNOON PRESENTATION SESSIONS

	Management Track: Asset Integrity & Reliability	New Technology for Old Plants & Refineries	Materials & Corrosion Resistant Alloys
<b>Moderators:</b>	<i>Moderator TBD</i>	<i>Moderator TBD</i>	<b>Fred Schweighardt</b> , <i>International Expert, Air Gas, An Air Liquide Company</i>
2:00 to 2:05pm	<i>Session Welcome</i>	<i>Session Welcome</i>	<i>Session Welcome</i>
2:05 to 2:30pm	<b>10 Rights of Asset Management: Achieve Reliability, Asset Performance and Operational Excellence</b> – <i>Jeff Smith, Senior Reliability Leader, Reliabilityweb.com</i>	<b>Maintaining Old Plants with New Innovative Techniques</b> – <i>Qurban Ali, Corrosion/Cathodic Protection, Saudi Aramco</i>	<b>6 Places Sulfuric Acid Plants are Using Alloys to Extend Plant Life</b> – <i>Andrew Pedersen, Technical Sales, Sulfuric Acid Business Area, NORAM Engineering and Constructors LTD.</i>
2:35 to 3:00pm	<b>Time for Change Especially in Aging Plants Beyond the Engineered Life; Accomplish the Zero Effect</b> – <i>Kelly Caillier, Director of Engineering, Atlas Inspection Technologies</i>	<b>Asset Integrity Monitoring Through Installed UT Sensors</b> – <i>Steve Strachan, VP Sales, Sensor Networks, Inc.</i>	<b>Overview of Laser Metal Deposition: For Waste to Energy Pressurized Boiler Components</b> – <i>Chris Proulx, VP of Business Development, American Cladding</i>
3:05 to 3:30pm	<b>Vibration Diagnostics for an Aging Plant</b> – <i>Michael Long, Executive Director, Vibration Institute</i>	<b>Extending the Useful Life of Assets Using Thermal Spray Coatings</b> – <i>Shawn O'Hanlon, General Manager, CTS-Texas</i>	<b>Alumina Former Stainless Steel for Extreme High Temperature Environment</b> – <i>Katie Day, Technical Marketing Specialist, Sandvik Materials Technology</i>
3:35 to 4:00pm	<b>Maintenance &amp; Repairs: The Ravages of Corrosion</b> – <i>James E. Holden, Technical Director, Energy and Engineered Services, Cortec Corporation</i>	<b>The Right Non-Destructive Examinations for Managing the Integrity of Insulated Pressure Piping</b> – <i>Fadi Basma, Sr. Operations Director, IRISNDT</i>	<b>Stainless Steel Tank Bottoms Providing Both Cost and Leak Control</b> – <i>John Grocki, Consultant, Arcelor-Mittal Industeel</i>