

Manufacturing and Automation

Tim Olsen

Emerson Process Management



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Agenda

- Technical – Hands on Experience
- MBA with Business Focus
- Volunteer
- Publications



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- 26 Years in Refining Industry
 - 18 years Emerson Process Management as Technical and Business Consultant for Refining Industry
 - 8 years UOP as Technical Advisor on Startups
- Active with AIChE
 - AIChE Fellow Member
 - Fuels and Petrochemicals Division Past Chair
 - 2014 Spring Meeting Overall Program Chair
 - Current committee member:
 - Chemical Engineering Technology Operating Council
 - Center for Energy Initiatives Advisory Board
- Active with AFPM (*prior name NPRA*)
 - Plant Automation and Decision Support Committee
- Active with Emerson Global Users Exchange
 - Board of Directors



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Technical Experience

- UOP
 - Pilot Plants for 1-½ years
 - Technical Advisor and Project Manager for 4 years
 - Process Control Advisor (2 startups) and Process Control Engineering Work for 2 years
 - Data Collection and Analysis on all Refinery Units for ½ year
- Emerson
 - Refinery Consultant
 - APC, Lambda Tuning, front-end analysis and project development, economic justification



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Business Experience

- MBA
 - Elective Courses included Corporate Venturing and Innovation, Developing Professional Services, Investment Banking and Financial Institutions, E-Commerce Tools, and Visual Basic programming.
- Remote Employee since 2000
 - Learn how to communicate effectively
 - Don't be invisible
- Provide strategic direction for Emerson internal
- Provide internal training on refining industry



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Volunteer Experience

- AIChE
 - Great opportunity to volunteer and get involved
- AFPM (NPRA)
 - Much harder to volunteer as solution provider, primarily setup for operating companies – persistence pays off
- Emerson Global Users Exchange
 - Started out helping setup and teardown exhibit hall – primary reason to establish relationships and communication with Emerson's business units
 - Asked to be on the Board of Directors in 2015



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Recent Publications

- Hydrocarbon Processing, Nov or Dec 2016, “Get more from your next turnaround”
- Offshore World, August/September 2016, “Increasing Refinery Margins with Automation and Behavior Changes”
- Process Heating, June 2016, “Improve Heat Exchanger Operation: Turn Big Data into Timely Actionable Information”
- Hydrocarbon Engineering, March 2016, “Equip for Opportunity Crudes”
- PTQ Shale Supplement, 2016, “Monitor against process problems”
- PTQ Shale Supplement 2016, Q&A, p. 5 similar to past two years
- AFPM Q&A 2015 Daily Newspaper, day 2 p. 12, “Additional measurements and timely information”
- Hydrocarbon Processing, September 2015, “Improving Refinery Flexibility and Responsiveness”
- CEP, April 2015 – “Working with Tight Oil”
- PTQ supplement on Processing Shale Feedstocks 2015 Q1, p.5
- Offshore World, Dec 2014/Jan 2015 Issue, “Smart Refinery to Enhance Productivity”
- CEP, May 2014, “An Oil Refinery Walk-Through”
- PTQ supplement on Processing Shale Feedstocks 2014 Q1, p.5,
- AFPM Annual Meeting 2014 daily newspaper, day 2 p. 14, “Shortage of skilled resources and collaboration centers”
- AFPM Q&A 2013 daily newspaper, day one cover article, “New challenges with shale oil refining and crude blending”
- CEP, January 2013, “Implement an Effective Loop Tuning Strategy”,
- PTQ, January 2013, “Refinery operations gain from advances in digital automation”



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Questions?

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