

# INSPECTION ENGINEERING

## Journal

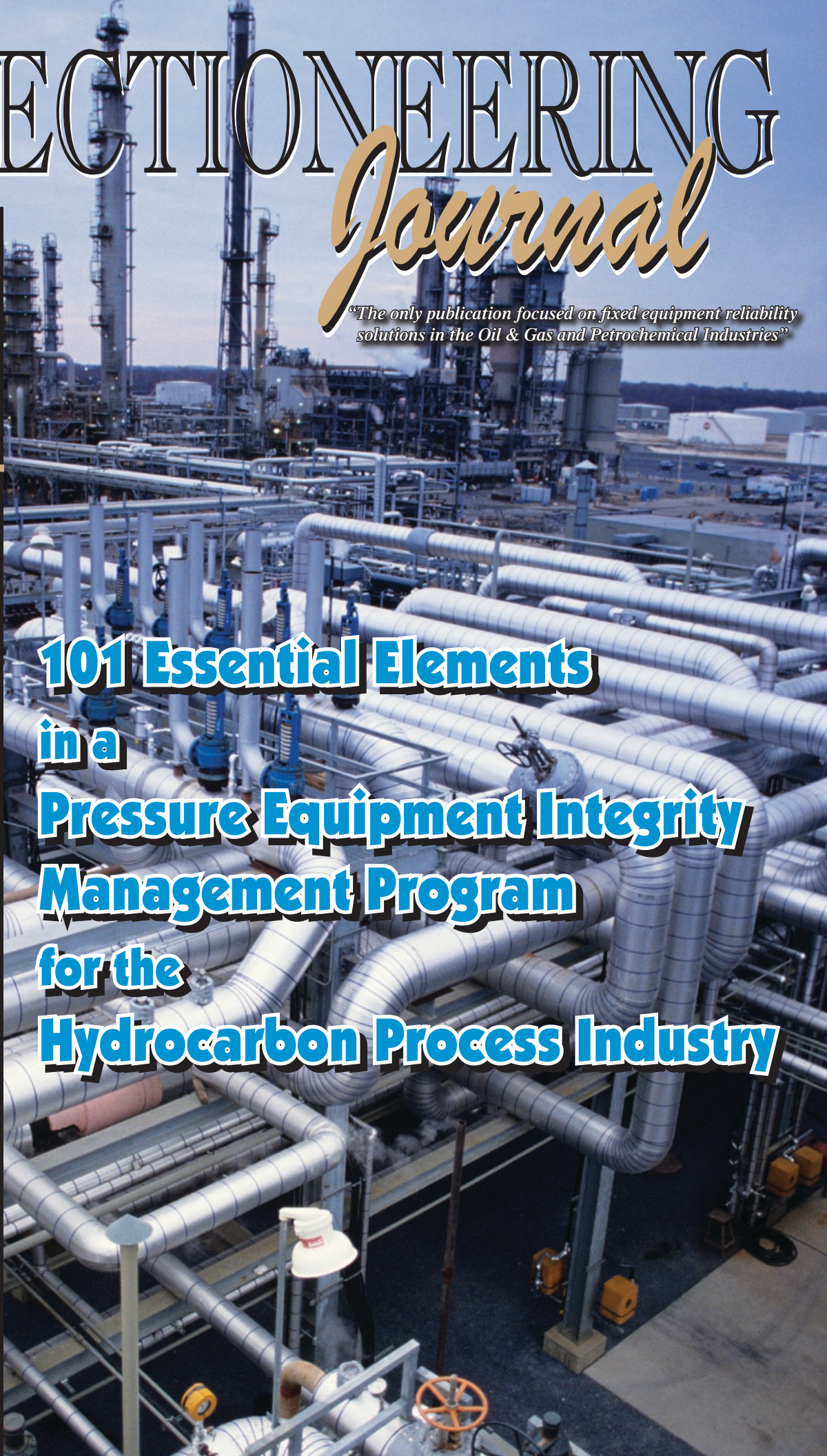
*"The only publication focused on fixed equipment reliability solutions in the Oil & Gas and Petrochemical Industries"*



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# 101 Essential Elements in a Pressure Equipment Integrity Management Program for the Hydrocarbon Process Industry



# 101 ESSENTIAL ELEMENTS 2010

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Greetings Inspectioneering® Community!

Just recently someone asked if I knew of a publication that provided a valuable overview of fixed equipment reliability (FER) for the oil and gas and petrochemical industries from a reasonable level, that was comprehensive and informative. That person wanted something that wasn't going to get into the theory of NDE methods, or the mechanical theory of fitness for service, but would mention them and the many other elements and would raise his level of awareness across the spectrum. He wanted something that first described the need for an effective fixed equipment reliability program then provided a medium level description of the important elements, best practices, of such a program, concisely. John Reynold's series, *101 Essential Elements in a Pressure Equipment Integrity Management Program* immediately came to mind. So we decided to compile them into this single work and to make it available digitally for easy archiving, access and for key word searching.



This seminal work, a 13 part series, occurred in 13 issues of the Inspectioneering® Journal in 2000 and 2001. They may not represent every single element anyone can imagine but I would guess they come pretty close. The following document contains hyperlinks for each issue and each topic. I am sure you will find it extremely valuable as a reference and communication tool.

A valuable sister document is also available entitled, *99 Diseases of Pressure Equipment*, by John Reynolds and Hearl Mead. This document describes at least 99 types of degradation, flaws and defects that can and do occur, causing failures of pressure equipment in the hydrocarbon process industry. I highly recommend you consider adding the "99 Diseases" document to compliment this document. Please contact us at the "IJ" if you are interested in obtaining this work.

We at the Inspectioneering® Journal will continue to keep you up to date with the latest practical information related to fixed equipment reliability best practices, industry and regulatory actions for the refining and petrochemical industries, just as we have for the last 15 years. Our approach is meant to be practical, "no-nonsense" and "to the point", making frequent use of actual examples from the field (case studies), showing limitations, benefits, describing logistical considerations, as appropriate from the layman's level. So you can operate at maximum effectiveness by providing this information in a way that is immediately useable and valuable. We need your continued input to help us achieve this by submitting articles, informing us of industry events and regulatory activities in the FER area, providing ideas for value improvement, and participating in the Inspectioneering® Journal's Discussion Forum. This forum is on-line, searchable, and full of valuable information contained in over 1,500 discussion entries.

If you are reading this you are a part of this pacesetting community, the Inspectioneering® Journal community, and we appreciate you, your ideas and participation. Thank you very much and please let us hear from you, often!

Keep doing your best to ensure the safety and reliability of "your" equipment!

All the best and kindest regards,

Greg Alvarado, Chief Editor, Inspectioneering® Journal

*"The significant problems we face cannot be solved from the same level of thinking at which they were created," Albert Einstein*

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