

#2 MISIF/NI/IMOA WEBINAR



CORROSION & MATERIAL SELECTION IN STAINLESS STEEL by **DR. ROGER FRANCIS**

SYNOPSIS

This talk introduces the four main types of stainless steel with a brief description of their properties. The six most common types of corrosion are discussed; Crevice Corrosion, Chemical Corrosion (Acids and Alkalis), Stress Corrosion Cracking, Erosion Corrosion, Corrosion Fatigue and Atmospheric Corrosion. Data is presented to show the relative performance of some commonly stainless steels and their performance in these environments. Some case histories are included to show both failures and success stories. The information required to select stainless steels for a particular service are discussed. The necessity for additional tests on CRA's over and above the requirements of standards like ASTM is stressed, and duplex stainless steel is used as an example of what can go wrong during manufacture and how appropriate testing can ensure the delivery of good quality material. Finally some further case histories are described where stainless steels have been very successful.

ABOUT SPEAKER



DR. ROGER FRANCIS, TECHNICAL CONSULTANT NICKEL INSTITUTE

Dr. Francis has over 50 years of experience as a corrosion engineer, specialising in marine corrosion, desalination, sour oil and gas corrosion, mineral processing, and the chemical and process industries. He currently runs his own corrosion consultancy firm, RFMaterials, established in 2012.

REGISTRATION FORM

Please register the following person/s for the "WEBINAR #2".
PLEASE TYPE IN BLOCK LETTERS:-

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Date:
12th June 2025
(Thursday)

Time:
3.00 pm – 4.30 pm
(Kuala Lumpur Time)

COMPLIMENTARY

Organised and Supported by:

About MISIF

The Malaysian Iron & Steel Industry Federation (MISIF) is the national association representing the iron and steel manufacturing companies of Malaysia. Among its many activities, MISIF provides subsector group management and in this instance, this workshop is to support promotional activities of the MISIF Stainless Steel Group.

About NI

Nickel Institute (NI) is the global association of most of the world's primary nickel producers. The NI supports and grows markets for new and existing nickel applications which naturally includes stainless steel. NI also promotes good science, asset management and socioeconomic benefit as the basis for public policy and regulation.

About IMOA

The International Molybdenum Association (IMOA) is a nonprofit trade association, representing the majority of the molybdenum industry worldwide. IMOA promotes appropriate molybdenum use through education, publications and targeted research projects. It also seeks to ensure appropriate regulation of molybdenum and its compounds, based on sound science.

INTERNATIONAL MOLYBDENUM ASSOCIATION
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SCAN to register

CLOSING DATE: 11 JUNE 2025
The organizer reserves the right to cancel, reschedule, postpone or amend the date due to unforeseen circumstances.