

#3 MISIF/NI/IMOA WEBINAR



STAINLESS STEEL FOR HIGH- PERFORMANCE APPLICATIONS by **DR. ROGER FRANCIS**

SYNOPSIS

In this talk the possible applications for stainless steels in carbon capture, green hydrogen production and other low carbon technologies will be discussed. Some new austenitic and duplex alloys have been recently launched and the potential applications for these materials will be discussed. There is a lot of interest in additive manufacturing (AM) of stainless steels for small complex parts, and a number of AM techniques have been developed. However, initial tests of some alloys have shown poor corrosion resistance compared with conventional forgings and castings. The ongoing research will be summarised and the possibilities for AM will be discussed.

Improvements in our understanding of corrosion mechanisms has meant that lower alloy stainless steels can now be used successfully in some industrial processes. The Kraft pulp and paper process and sulphuric acid production will be used as examples of this.

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

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Date:
6 August 2025
(Wednesday)

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
THE VOICE OF THE MOLYBDENUM INDUSTRY



SCAN to register

CLOSING DATE: 5 AUGUST 2025

The organizer reserves the right to cancel, reschedule, postpone or amend the date due to unforeseen circumstances.