

# #3 MISIF/NI/IMOA WEBINAR



## DISSIMILAR METAL WELDING – PRACTICAL ASPECTS

by  
**Dr. Krishnan  
Sivaraman, IWE**

### SYNOPSIS

Dissimilar metal welding refers to the process of connecting materials with different alloys through welding. The filler material and both base metals need to be evaluated before choosing the best way to connect the metals. While fusion welding is a popular method, it does not work well for some combinations of metals. Reportedly, there are three main challenges with welding dissimilar metals; Different thermal expansion coefficients, Different metallurgy, and Potential for galvanic corrosion.

There is no simple, standardized approach when it comes to welding dissimilar metals. As such, one needs to analyse the situation before selecting a suitable methodology to join dissimilar metals. The webinar will focus more on a broader classification of the most used welding processes and welding techniques for some of the common dissimilar material combinations, critical factors to be considered and the practical aspects to be followed for achieving a satisfactory weld, and practical difficulties arising from the physical and chemical properties of dissimilar materials to be joined.

### ABOUT SPEAKER

Dr. Krishnan Sivaraman is a Graduate in Mechanical Engineering, Post graduate in Metallurgy and a PhD in welding from one of India's most prestigious institutes, IIT-Bombay.

Dr. Krishnan has got close to 2 decades of experience in Welding, Metallurgy and Quality with Larsen & Toubro's Heavy Engineering Division, one of the world leaders in manufacturing of Pressure Vessels and Heat Exchangers.

He is also an International Welding Engineer (IWE) and is presently working with FCRIT Mumbai as an Associate Professor in Mechanical Eng dept.

He is supporting many companies as a welding expert in India and is presently the Vice Chairman of Indian Institute of Welding, Mumbai branch.

He has won many awards at National level for his contributions to welding field and has also presented many papers in Journals, conferences and seminars both at National and International levels.

### REGISTRATION FORM

Please register the following person for the "WEBINAR #3".

PLEASE TYPE IN BLOCK LETTERS:-

1. Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Email: \_\_\_\_\_

Date:  
**15 August 2023  
(Tuesday)**

Time:  
**10.00 am – 11.30 am  
MST (GMT+8)**

**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: 14 AUGUST 2023**

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