

# Key Trends in Welding, Joining and Allied Processes – A global perspective from the International Institute of Welding (IIW)

**Webinar  
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Dr Luca Costa

With the advent of greater demand for online training, HERA, IIW-India, SAIW and the CWB Association are cooperating and collaborating to transfer the knowledge and experience of world experts into as many countries on a global basis.

The four organisations will arrange for webinars and eCourses to be presented by such world experts to meet the challenges of different time zones, the need to assist individuals and industries to optimise their training times as well as improve their national welding capabilities.

You can make enquiries and bookings with each organisation offering the webinar or course most suitable for your needs.

Links for registration are given later in this brochure.

*This presentation is brought to you by:*

## **Dr Luca Costa**

IIW Chief Executive Officer (CEO),  
Chairman of the Italian Standardisation Committee UNI TC 39 (Welding and permanent joining) and the representative of the Italian Standardisation Body (UNI) at ISO TC 44 and CEN TC 121.

Contacts at each organisation for more detailed discussion on all future eCourses to be organised are:

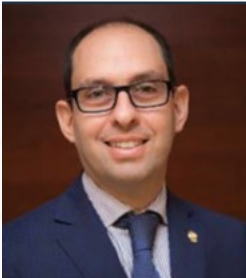
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# Key Trends in Welding, Joining and Allied Processes – A global perspective from the International Institute of Welding (IIW)



## Presenter: Dr Luca Costa

Chief Executive Officer (CEO), International Institute of Welding (IIW)

The presentation will cover the future trends in Welding and Allied technologies, covering the matter through the IIW wide-angled view. Particular attention will be given to the following areas:

- the relationship between welding operations and the emerging manufacturing approaches

using big data, artificial intelligence and intelligent manufacturing;

- training skills to adapt to the evolving industrial environments in different regions of the world;
- the impact of Occupational Health and Safety measures on manufacturing on a global scale.

Dr Costa has been the Chief Executive Officer of the IIW since 2020 and the organisation has since undertaken several key projects, including progressing to fully virtual events during the Global Covid Pandemic, the organisation of a Hybrid International Annual Assembly and Conference and the development of a new strategy and marketing plan addressed at widening the IIW's global impact and industry focus.

In 2021, Dr Costa was selected as Chairman of the Italian Standardisation Committee UNI TC 39 (Welding and permanent joining) and is the representative of the Italian Standardisation Body (UNI) at ISO TC 44 and CEN TC 121.

He graduated as a Mechanical Engineer in 1998 from the University of Genoa with a thesis developed at the Italian Institute of Welding (IIS – Istituto Italiano della Saldatura) on the development of an expert system on preheat calculation and impact assessment. He served in the Italian navy in the period 1999-2000 and was employed in IIS in 2000. He was awarded the diploma of International Welding Engineer (IWE) in 2000 by IIS and IIW.

During his employment at IIS, Dr Costa worked in the education and training department, conducting undergraduate and postgraduate training, both in Italy and abroad. He had different levels of responsibility including being Head of the Department from 2013 until 2019.

During this period, he was also involved in research, technical assistance, certification, and standardisation activities. He had responsibility for all the technical activities of the IIS dealing with Health and Safety and Environment in welding and was deeply involved in research and development projects in welding. He was an active member of the Italian national standardisation body for welding (UNI – Commissione Saldatura).

He is the author of several papers dealing with environment, health and safety, welding technology and fabrication published in national reviews and co-author of several books and manuals dealing with welding and non-destructive testing published by IIS.

In 2014, he received the “Kenneth L. Brown Memorial Safety and Health Award” from the American Welding Society (AWS).

He has been actively participating in activities of the International Institute of Welding (IIW) since 2000, by being active in Commission VIII “Health and Safety”, Commission IV “Power Beam Processes”, Commission XIV “Education and Training” and the International Authorisation Board. He chaired the technical commission “Health, safety and environment” (2009-2014). He served as IIW Vice-president (2011-2014), Chairman of the Technical Management Board (2014-2017) and Treasurer (2017-2019). In this period, several articles and papers and a book were developed under his co-authorship.

## **WHERE and WHEN:**

The WEBINAR will be of one and a half hours duration including half an hour for questions and discussion. It will be held on three separate occasions to accommodate the four different regions of the globe: The Americas; Africa and Europe; Indian sub-continent, Asia and Australasia.

## **WHO SHOULD ATTEND?**

Personnel of all types and at all levels in manufacturing, fabrication, construction, maintenance, standards, regulatory, education, training and research organisations are welcome to attend. Delegates are welcome to bring along their questions to contribute to discussions and positive outcomes.

## **WHAT INDUSTRY SECTORS IS THE WEBINAR RELEVANT FOR?**

All welding related industry sectors will benefit from involvement in the webinar.



## **The International Institute of Welding (IIW)**

The International Institute of Welding (IIW) was formed in 1948. After the devastation created through the Second World War, Europe in particular, required major reconstruction and countries got together in 1947 and formed ISO and IIW amongst other organisations to somehow build up the quality of life again. 13 countries formed IIW (11 European, USA and South Africa) and this number has since grown to 51 illustrating the importance countries give to welding and the role of IIW and its members in improving the quality of life globally.

The main goal of IIW has been set “to allow exchange of knowledge in the field of welding”. Since its formation, welding technologies have developed, widened, and embraced allied technologies and related approaches.

This widened scope includes all welding processes as applied to metallic and polymeric materials, from the nano- to the full-scale, and approaching design, fabrication, repair and life extension, quality management and also covering training and certification.

The global scientific and technological excellence in research and industrial organisations constitute the IIW community of experts, meeting at least twice every year to discuss research topics, construction and failure cases and to develop collaborative work in the form of books, ISO standards, recommendations, statements, training guidelines and other industrial tools for technology transfer to the global community.

**Keywords:** *Welding experts, global trends, intelligent manufacturing, artificial intelligence, big data, training, OH&S.*

## SAARC, MIDDLE EAST, ASIA and AUSTRALASIA – ORGANISER IIW-INDIA

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	24 November 2023	India & Sri Lanka ... .. 14:00-15:30 Bangladesh ... .. 14:30-16:00 Saudi Arabia, Kuwait, Bahrain ... .. 11:30-13:00 UAE-Dubai, Sharjah, Abu Dhabi, Oman. ... .. 12:30-14:00 Singapore, Perth. ... .. 16:30-18:00 Sydney ... .. 19:30-21:00 Auckland. ... .. 21:30-23:00

- **Registration Link:**  
<https://tinyurl.com/2p9dh82v>

**CLICK HERE TO REGISTER**

## AFRICA and EUROPE – ORGANISER SAIW

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	28 November 2023	South Africa ... .. 12:00-13:30 Nigeria ... .. 11:00-12:30 London ... .. 10:00-11:30 Istanbul ... .. 13:00-14:30

- **Registration Link:**  
<https://www.saiw.co.za/key-trends-in-welding-joining-and-allied-processes-a-global-perspective-from-the-international-institute-of-welding-iiw/>

**CLICK HERE TO REGISTER**

## AMERICAS – ORGANISER CWB ASSOCIATION

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	29 November 2023	Toronto ... .. 12:00-13:30 (EST) West Coast Canada and USA ... .. 09:00-10:30 (PST) Atlantic Canada and USA... .. 13:00-14:30 (AST) Sao Paulo Brazil . ... .. 14:00-15:30 (BRT) Santiago Chile ... .. 14:00-15:30 (CLST)

- **Registration Link:**  
<https://www.eventbrite.ca/o/cwb-association-33898968275>

**CLICK HERE TO REGISTER**

**Register Today** – To register, follow the registration links above.

**Cost** – The webinar is free to all applicable areas. Membership may be required.

**Cancellations** – *Please note:* The organisers reserve the right to cancel the webinars due to insufficient registrations or other reasons beyond their control, as well as altering the programme if they deem it necessary. The organisers also have the right to refuse registrations.

**Stay tuned for future webinars and courses by WIN!!**