



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience



IIW VALUES

A WORLD of Joining Experience

The International Institute of Welding (IIW) is recognised as the largest worldwide network and centre of reference for welding and allied joining technologies, boasting a current membership of 59 countries from five continents.

The IIW's goal is to operate as the global body for the science and application of joining technologies, providing a forum for networking and knowledge exchange among scientists, researchers and industry, and disseminating leading edge research results and best practices.

IIW International Education, Training Qualification and Certification Programmes for welding personnel and companies are recognised worldwide. Supported by industry and international training and accreditation entities, the platforms developed for education and training are paving the way towards one global education and qualification system for welding personnel.

The IIW is a standardising body approved by the International Organization for Standardization (ISO) to develop standards in the field of welding and related processes.

IIW's virtual library constitutes the world's largest online resource for welding information available today. The most outstanding papers are published in the prestigious journal 'Welding in the World' registered in Thomson Reuters Science Citation Index® since 2009.

WHY join the IIW family?

To take part in advancing innovation in the field of materials joining and to contribute to technology transfer.

To make connections with world leaders in welding and have access to state-of-the-art welding-related developments.

To address key issues by joining one of the numerous IIW Working Units together with other dedicated engineers, researchers, educators and students, as well as the industrial decision-makers, doctors, architects and toxicologists who contribute their knowledge and experience.

To benefit from participation at the various IIW events which unite the international materials joining fraternity.

To enhance your personal and professional network at a global level.

To boost your career through publication in a top-rated scientific journal referenced in Thomson Reuters' Web of Science®.





THE VALUES OF THE INTERNATIONAL INSTITUTE OF WELDING

AN ETHICAL AND PROGRESSIVE ORGANISATION

The International Institute of Welding (IIW) brings together experts from industry - large, medium and small sized enterprises, universities, research centres, training providers, welding associations and public authorities in the field of welding, joining and allied processes. A not-for-profit organisation, the IIW, founded in 1948, currently has 59 member countries representing 80% of global GDP, and ranging through developed, emerging and transitional economies worldwide.

IIW provides a unique platform to enhance excellence in the fields of welding and joining sciences and technologies, and promote their uptake and implementation through education, training, qualification and certification worldwide. It also contributes to the global awareness of environmental and workplace health and safety imperatives, and plays an important role in global standardisation.

THE IIW MISSION 'TO ACT AS THE WORLDWIDE NETWORK FOR KNOWLEDGE EXCHANGE OF JOINING TECHNOLOGIES TO IMPROVE THE GLOBAL QUALITY OF LIFE'

The IIW Mission promotes the development and implementation of a range of initiatives for the benefit of countries and regions as well as individuals who contribute to the development of welding technologies throughout the world.

IIW MAIN GOALS

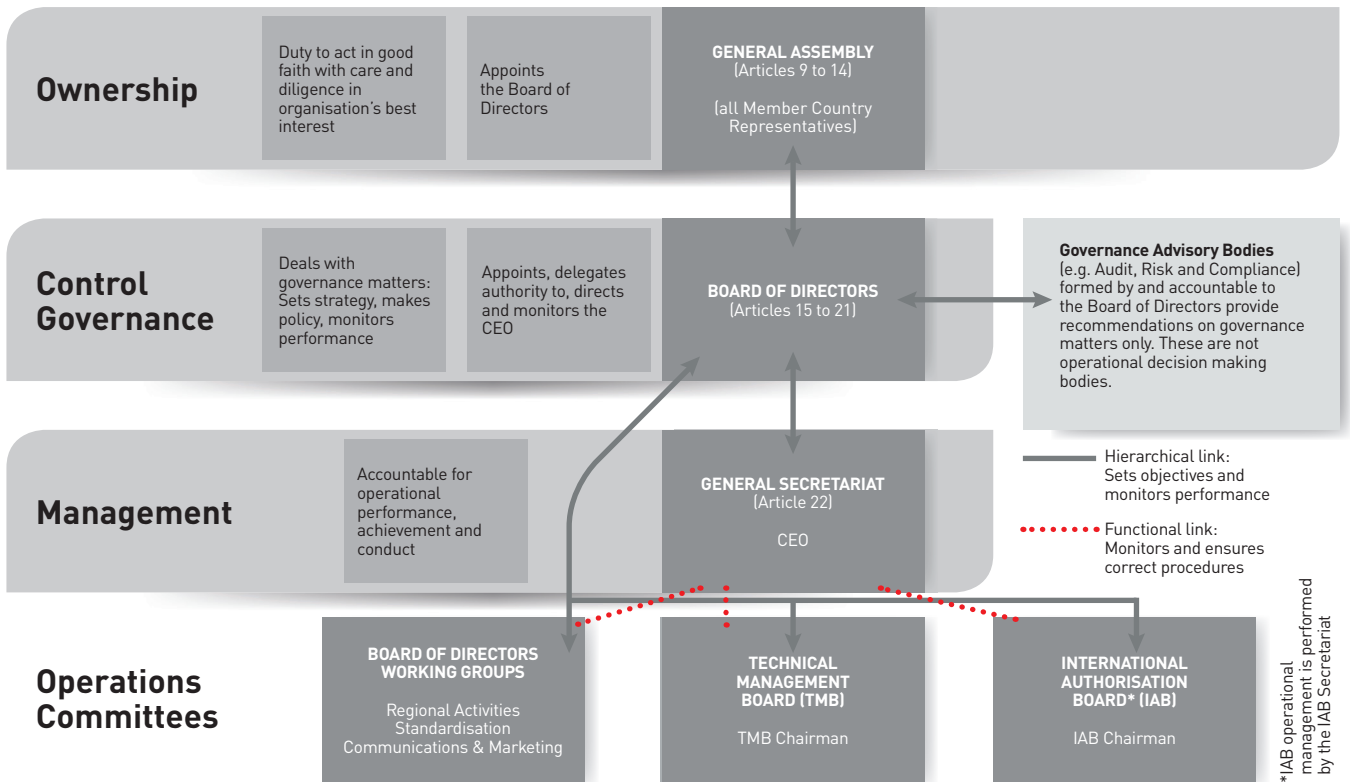
The main goals of the IIW are to:

- identify, create, develop and transfer the best practices - including standards - for sustainable development in a sustainable environment;
- identify, develop and implement the IIW Education, Training, Qualification and Certification (ETQ&C) Programmes on a global basis;
- promote the IIW and its Member Societies and services in various regions of the world for the common benefit of all.



IIW Governance Structure

French Association registered to the Public Authority (Préfecture); IIW Constitution 2013
 Stakeholders: countries, companies, universities, schools, students, governments, research groups, ANB, ANBCCs, ATBs
 Mission: Act as the worldwide network for knowledge exchange of joining technologies to improve the global quality of life



A COLLABORATIVE MODEL

IIW has been a not-for-profit Association under French law since 1996. The current governance scheme shown above ensures that the powers are owned by the Members; the governing tasks being under the control of the Board of Directors and operational aspects managed by the CEO.



The IIW General Assembly

THE PRINCIPLES OF GOOD GOVERNANCE

Independence

Ensuring and demonstrating the freedom of the Board of Directors from interference in decision making.

Openness and transparency

Ensuring that stakeholders can have confidence in the decision-making and management processes.

Accountability

Ensuring that all implied individuals, including members of the Board of Directors, CEO and staff, are seen to be responsible and accountable for their decisions and actions, including the stewardship of funds.

Integrity

Ensuring straightforward dealing and completeness, based on honesty, selflessness and objectivity, and ensuring high standards of probity and propriety in the conduct of the association and complaint decision making.

Clarity of purpose

Ensuring that stakeholders know why the IIW exists and what it does, and what to expect from it.

Effectiveness

Ensuring that the IIW delivers quality outcomes efficiently and generates value to the Membership.



IIW VALUES PEOPLE RECOGNITION



IIW AWARDS - RECOGNITION OF PEOPLE, SERVICE AND EXCELLENCE

Each year the IIW honours significant contributions in the fields of welding and joining technology. Individuals are recognised for specific, outstanding, technical achievements, for their illustrious careers, or for long and meritorious service to the IIW.

Many IIW Awards are named to pay tribute to eminent individuals who played a major role at some point in the organisation's history. Whether as founding fathers, champions or pillars of the technical Commissions and Working Units, they each contributed greatly to the furtherance of the IIW's aims and objectives and/or to the development of revolutionary scientific and technical advances in welding and allied processes.

Many awards are sponsored by the national delegation to which the personality after whom they are named belonged.

It is the dedication and vision of these famous IIW personalities which set the stage for the organisation to be recognised today as the largest and most prestigious worldwide network for knowledge exchange of joining technologies.

The various IIW Awards are therefore intended to closely reflect the extraordinary activities of those forebears in whose honour they are named, serving to promote, encourage and reward personal and professional excellence.



The majority of the awards are made up of prizes, presented to winners during the Opening Ceremony of the IIW's Annual Assembly. In certain cases, the award consists of the delivery of a special Introductory or Keynote Lecture at an IIW International Conference, an IIW International Congress, or at select IIW Member Society events.



MAIN IIW AWARDS

André Leroy Prize, since 1980, sponsored by the French Delegation

Arthur Smith Award, since 2001, sponsored by the United Kingdom Delegation

Evgeny Paton Prize, since 2000, sponsored by the National Welding Committee of Ukraine and the E.O. Paton Electric Welding Institute

Halil Kaya Gedik Award, since 2013, sponsored by the Turkish Delegation

Heinz Sossenheimer Award, since 2001, sponsored by the German Delegation

Henry Granjon Prize, since 1992, sponsored by the Institut de Soudure (French Institute of Welding)

IIW Regional Activities Award, since 2014, sponsored by the Australian Delegation

Thomas Medal, since 1997, sponsored by American Welding Society

Ugo Guerrera Medal, since 2000, sponsored by the Istituto Italiano della Saldatura (Italian Institute of Welding)

Walter Edström Medal, since 1966, sponsored by the Swedish Delegation

Yoshiaki Arata Award, since 1994, sponsored by the Japanese Delegation

IIW LECTURES

Houdremont Lecture, since 1959

Portevin Lecture, since 1963

Jaeger Lecture, since 1988

The **Welding in the World Best Paper Award**, introduced in 2012, rewards one of the papers published in the journal during the preceding year.

The **Kenneth Easterling Award** has been given since 2001 at every International Seminar on Numerical Analysis of Weldability in recognition of the paper which is valued as the best contribution in the field of mathematical modelling of weld phenomena.

The **Fellow of IIW (FIIW) Award**, introduced in 2014, recognises members of the IIW for distinguished contributions to the field of welding science and technology, and for promoting and sustaining the professional stature of the field.

Attendance Recognition Certificates have been presented since 2006, during the various meetings of the Annual Assembly, to those who contributed significantly to the IIW by having attended 10, 20, 30 or 40 Annual Assemblies.

Service Recognition Awards have been presented since 2011 in appreciation of longstanding voluntary service and personal involvement as Working Unit Chairman or Vice-Chairman.



Guerrera Medal



Attendance Recognition for 40 Annual Assemblies



Edström Medal

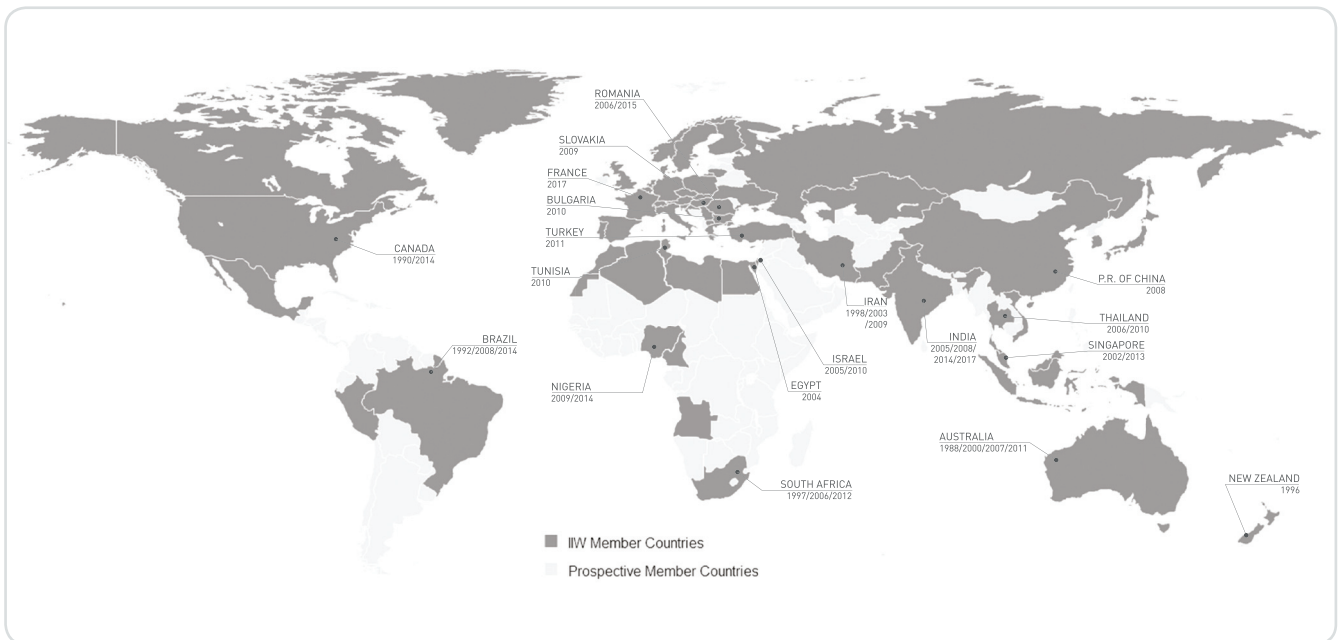


IIW VALUES REGIONAL ACTIVITIES

PROMOTE IIW AND ITS MEMBER SOCIETIES IN ALL REGIONS OF THE WORLD FOR THE MUTUAL BENEFIT OF ALL

The Board of Directors Working Group on Regional Activities and Liaison with Developing Countries (WG-RA) provides a very successful forum for the discussion, promotion and delivery of the raft of IIW services and activities to the regions of the world. Through the WG-RA Strategic Plan and WeldCare Programme,

representatives of Member Societies from around the world play an important role in the IIW's Project 'To Improve the Global Quality of Life by the Optimum Use of Welding Technology.' In cooperation with other IIW Working Units, WG-RA actively develops a global programme of IIW events and promotes and markets IIW services and membership. WG-RA also supports the introduction of IIW Education, Training, Qualification and Certification Programmes in developing nations, and fosters regional cooperation and networking through International Congresses and workshops.



IIW INTERNATIONAL CONGRESSES

International Congresses, coordinated and promoted through WG-RA, have been excellent catalysts for people from industry, government, education and training to work together in a particular region, to establish cooperative networks of both Technology and Education Support Centres.

Resolutions taken at the end of each IIW Congress provide forward planning for practical outcomes for the benefit of the respective region.

Since the first International Congress held in 1988 in Australia, over 30 such events have been held in the different regions of the world: Asia-Pacific, Far East, Latin America, North Africa, Middle East, Southern Africa, South East Europe, West Africa and South East Asia.

IIW ASSOCIATED EVENTS

By supporting events of relevance around the world, the IIW has the opportunity to not only foster welding-related technology exchange, but to also have a presence in a wide range of regions, with the potential for expansion of IIW membership and the take-up of IIW programmes.



Blessing Diamond and Dorothy Omojero, first two African women to complete the International Welding Practitioner (IWP) course. Blessing eventually completed the International Welding Specialist (IWS) course.



Sharing of the Talking Stick at the first IIW International Congress in the Arctic Region (Vancouver, September 2014)

THE IIW WELDCARE PROGRAMME

The IIW Weldcare Programme for take-up by developing countries is a flagship for the promotion of IIW activities, membership and benefits in the various regions of the world, particularly in developing countries.

The benefits of national and regional Technology Support Centre and Education Support Centre Networks are promoted through the programme, and activities such as the IIW International Congresses have great potential to reach non-IIW Member countries and relevant governments and other organisations in a region.

OTHER WG-RA ACTIVITIES

WG-RA also holds workshops for IIW Members on subjects such as 'Technology Diffusion' and 'Governance'.

A new initiative involves using the IIW White Paper to promote a project on establishing a 'National Welding Capability' in a country.

SUCCESS STORY (part of the IIW WeldCare Programme)

The Nigerian Institute of Welding (NIW) became a member of IIW in 2006 and has gone on to become a leader for the development of the welding industry in the West African region. Significant achievements include the establishment of the West African Welding Federation with five foundation member countries, mentoring the establishment of the Ghanaian Welding Society, and the introduction of the IIW ETQ&C programmes. Today IIW's policies and recommended practices are fast becoming key reference points for both personnel and technology development across Africa.

A very fruitful collaboration between the Southern African Institute of Welding (SAIW) and NIW started with a simple Memorandum of Understanding in 2007. It continued with the SAIW Train the Trainers project being introduced in Nigeria to support welding education throughout the region.

The first International Welding Practitioner (IWP) and International Welding Specialist (IWS) diplomas were awarded in 2009 in South Africa, and the first two African women qualified are pictured above. Following this, SAIW cooperated with NIW to train five IWP candidates from Sao Tome and Principe in 2013. The practical welding preparation was carried out by NIW and the final theory training and testing was carried out by SAIW, with the diplomas issued in South Africa.



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IIW VALUES A VISION FOR THE FUTURE

A VISIONARY PROJECT AND ITS OUTCOMES

THE IIW PROJECT

If one considers all the attributes of an organisation such as IIW, a key challenge is how to utilise these attributes to achieve the high level objective 'To Improve the Global Quality of Life through the Optimum Use of Welding Technology'. This project, approved by the IIW Board of Directors in July 2005, brings together and coordinates many of the IIW activities, dovetailing with those of its Members Societies, for everybody's mutual benefit.

Key initiatives that are formalised and coordinated within project are detailed in the previous section (IIW Values: Regional Activities) and include the:

- IIW Weldcare Programme;
- Education, Training, Qualification and Certification – IIW Educational Support Centres Networks;
- IIW Technology Support Centres Network;
- project to improve the Image of Welding.

THE IIW BUSINESS PLAN

A concrete outcome of the IIW Project was the Business Plan which assigns these five main goals of the IIW to the Technical Management Board (TMB), the International Authorisation Board (IAB), Regional Activities and Communications and Marketing Working Groups and the Secretariat:

- identify, create, develop and transfer world's best practices;
- identify, develop and implement the IIW ETQ&C Programmes on a global basis;
- promote IIW, its Member Societies and services in various regions of the world to the mutual benefit of all;
- implement the IIW's outcomes;
- provide quality services to IIW members and other organisations.

Each main goal has been sub-divided into several key objectives which constitute the roadmap, or Strategic Plan to track the responsible Working Unit.

Each Working Unit has then developed an Operational Plan to track and follow up the implementation of the objectives.



Short, medium and long term agendas of the IIW





- guide industry on the future types and numbers of personnel requirements;
- provide necessary technological developments including 'hot topics' to improve the global quality of life through optimum use and innovation of welding and joining technologies. Also, provide examples to give incentives for new ideas;
- raise the national and international profile of the IIW and its Member Societies.

Some of the high priority agendas identified in the White Paper are:

- make IIW the leading source of reliable information available free of charge;
- be the worldwide forum of research and development in joining technologies;
- make IIW organisation and goals clear to everyone.

The highest priority has been assigned to the development of cooperation and help programmes.

THE IIW YOUNG LEADERS PROJECT

The IIW Task Group on Young Leaders, initiated in 2013, is focused on nurturing and growing young professionals from countries and organisations with limited resources. Outreach projects are being developed and the group is also working on the implementation of sustainable mechanisms to assure the durability and effectiveness of the actions.

BUILDING NATIONAL WELDING CAPABILITY

An initiative from the IIW Project, linking with the work of the WG-RA, is the promotion of the benefits to a country of building a coordinated, national welding capability. IIW Workshops, attended by leaders from industry, government, training bodies, and other organisations and hosted by the local Member Society, outline strategies to achieve this outcome.



The first workshop on the Building of a National Welding Capability (Delhi, India, April 2014)

THE IIW WHITE PAPER

Due to the finite nature of most basic technical materials necessary for producing welded products, sparing use of these non-renewable resources is becoming increasingly critical. Welding and joining technologies are already offering essential solutions and research will continue to promote sustainability for the future.

The preparation of a visionary document has been one of the significant achievements of the IIW Project. The IIW White Paper was prepared by 70 internationally renowned experts from industry, universities and welding associations around the world.

The White Paper has the following five primary objectives, to:

- identify the challenges for welding and joining technology in the global arena;
- recommend the implementation of strategies to find solutions to meet these challenges;
- agree on solutions for the next 20 years;
- promote the implementation of identified solutions on national, regional and international bases through greater collaboration, shared knowledge and partnerships;
- improve the overall global quality of life i.e. health, safety, food, water, fair trade, environment and educational opportunities.

This outstanding document is intended to be used to:

- influence governments and industry about research and development (R&D) needs and the magnitude and types of research funding which need to be made available;
- improve the image of welding and promote its importance to national, regional and global economies;





WHAT can you achieve as a member?

Under the auspices of the IIW, you can create your country's own 'board of welding education' and accredit welding training centres.

You can issue IIW diplomas and certificates to successful candidates at every level of the profession, thus validating and ensuring worldwide recognition of their skills.

You can gain the acclaim of the international materials joining community through our prestigious prizes.

Delegates and experts may be appointed to represent your country in the various IIW Working Units to both contribute and gain knowledge.

You can obtain access to the IIW's vast technical database, with more than 15,000 key documents from over 60 years.

The World Leading Network in Materials Joining



Membership is open to not-for-profit organisations or research institutes, with the possibility of multiple members per country.

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