

IIW Activities and Standards – an update

Overview of the IIW

– what it is and what we do.

by Chris Farrar



IIW Activities and Standards – an update

Background

- International membership based organisation
- Members are national welding societies e.g. TWI
- Societies are responsible for the subscriptions
- Subscriptions are based on steel consumption
- IIW was founded in 1948 by 13 members
- Membership is currently 45



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Who runs IIW?

- Policies are agreed by the members at the General Assembly meetings
- The members elect a board of directors which directs the affairs of IIW
- The board consists of 12 directors, including president, 3 vice presidents and treasurer
- Day to day management is by a Permanent Secretariat and the Chief Executive – based at Institute de Soudure



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Mission and Objectives

To be the global body in the science and application of joining technology providing networking and knowledge exchange

- Exchange of scientific and technical information
- To prepare recommendations and state of the art reports
- To promote national welding societies



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Mission and Objectives

- Organise Annual Assemblies, International Conferences and Regional Congresses
- Guidelines for education, training, qualification and certification of welding personnel
- Assist in formulation of international standards in collaboration with ISO
- To help promote a sustainable environment



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Commissions – Working Units

- I – Brazing, soldering and thermal cutting
- II – **Arc welding and filler metals**
- III – Resistance and solid state welding (includes FSW)
- IV – Power beam processes
- V – QC and QA of welded products
- VI - Terminology



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Commissions – Working Units

- VIII – Health and Safety
- IX – **Behaviour of metals when welded**
- X – Fracture avoidance
- XI – Pressure vessels, boilers and pipelines
- XII – Arc welding processes and production systems
- XIII – Fatigue of welded structures



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Commissions – Working Units

- XIV- Education and training
- XV – Design, analysis and fabrication
- XVI - Polymers and adhesives
- IAB – International Authorisation Board
- IAB/A – Education, Training and Qualification
- IAB/B – Implementation and Authorisation



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Commissions – Working Units

- SC AIR – New materials/coatings for aerospace
- SC ENV – Environmental issues
- SC QUAL – Quality management
- SC STAND – Standards coordination
- SC UW – Underwater welding
- SG 212 – Physics of welding
- SG RES – Research strategy and collaboration



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Workings of the Commissions

- Organised by the Chairman (plus vice chairman)
- Chairman elected by the national delegates
- Term of office 6 years, plus possible extensions
- Each member can have one voting delegate
- Each member can have unlimited experts
- Votes used for elections and formal resolutions



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Workings of the Commissions

- Some commissions have sub commissions
- Specific areas of interest e.g. Comm. IX
- Intermediate meetings held once or twice per year
- Main meeting is at the Annual Assembly
- Meetings can extend over 3 half days



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Resolutions

- Publication of documents
- Usually in ‘Welding in the World’
- Approval of draft ISO standards
- Approval of draft ISO technical reports
- Transmission of docs to other commissions
- Organisation of meetings & joint meetings



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Working groups of the Board

- Publications
- Regional Activities
- International Authorisation Board – IAB
- Group A – setting standards for education, training and qualifications
- Group B – Implementation, Authorisation and auditing of national bodies



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The IAB – Group A

- Six international curricula approved:
- Welding Engineer IWE
- Welding Technologist IWT
- Welding Specialist IWS
- Welding Practitioner IWP
- Welding Inspection Personnel IWIP
- Welder IW



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The IAB – Group A

- Three international guidelines being developed:
 - Aluminium Welder
 - Welding Instructor
 - Distance Learning



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The IAB – Group B

- Three international guidelines being developed:
 - Aluminium Welder
 - Welding Instructor
 - Distance Learning
- 2003 – 6226 diplomas were issued



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The Authorised National Body (ANB)

- Network of national ANBs
- 32 countries approved
- 4 applications in progress
- 6 further expressions of interest



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Standardisation

- Coordinated by a select committee
- Chaired by Dr David Shackleton, UK
- 6 Commissions involved in standards
- Technical drafting body for ISO
- Close liaison with CEN and EN standards
- Route established for ISO technical reports



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More information about IIW

- IIW Web Site
- Public access for general information
- Delegates access to commission documents
- The IIW annual report
- Any UK delegate

