



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience

Commission XVIII

Quality Management in Welding and Allied Processes

AGENDA (Draft)

75th Annual Assembly, Tokyo

Thursday, July 21, 2022

08.30 – 12.30 JST, Concerto

XVIII-314-2022

Robert E. SHAW, Jr., PE
Chair
Steel Structures Technology Center, Inc.
Howell, Michigan USA

Robert.Shaw@iiwelding.net



21 July 2022, 08.30 – 12.30 JST, Tokyo

21 July 2022, 00.30 – 04.30 BST, London

21 July 2022, 01.30 – 05.30 CEST, Genoa

21 July 2022, 05.00 – 09.00 IST, India

21 July 2022, 07.30 – 11.30 CST, Beijing

21 July 2022, 09.30 – 13.30 AEST, Sydney

21 July 2022, 011.30 – 15.30 NZST, Auckland

20 July 2022, 19.30 – 23.30 EDT, New York, Toronto

Chair:

Robert E SHAW Jr USA
robert.shaw@iiwelding.net
rshaw@steelstructures.com

Vice Chair:

Mathias LUNDIN Sweden
mathias.lundin@svets.se

Task Groups:

- 1) **Standards** Bob Shaw (USA)
 robert.shaw@iiwelding.net
- 2) **QMS issues** Inderpal JASWAL (CAN)
 Inderpal.Jaswal@cwbgrouop.org
- 3) **Personnel issues** Emanuele GANDOLFO (IT)
 Emanuele.Gandolfo@iiscert.it



Commission XVIII Terms of Reference (Parts 1 and 2) (regularly updated) See XVIII-285r1-19 for original.

1.0 Scope and objectives

Commission XVIII, formerly SC-QUAL, maintains the goal to identify, create, develop and transfer global best practices in the field of quality management for welding and allied processes.

It focuses on quality management systems and the qualifications for personnel and companies involved in welding and allied processes.

Commission XVIII acts as an interdisciplinary body for the IIW, working with other Commissions to develop industry documents and standards for use by technical experts, quality managers and production personnel.

2.0 Key Objectives and deliverables

At present, Commission XVIII members are:

- Drafting a new standard ISO 4061 "Soldering - Quality requirements for structural soldering of metallic materials" jointly with Commission XVII
- Publishing "IIW Recommendations and Best Practices for Welding Inspection – Tasks and Responsibilities"
- Drafting a new Commission document "Brazing and soldering coordination: Tasks and Responsibilities" jointly with Commission XVII
- Drafting a new Commission document "Recommendations for competences for personnel involved in auditing to verify the compliance in accordance with quality system in field of welding and allied processes"
- Preparing comparative studies of criteria for 1) welding company audits, and 2) structural fabrication audits
- Updating guidelines on the implementation of quality standards, for example, ISO 3834 "Quality requirements for fusion welding of metallic materials."
- Drafting guidance on risks in fabrication industries
- Managing ISO 22688 "Brazing - Quality requirements for brazing of metallic materials" jointly with Commission XVII



As presented Monday afternoon, July 18, 16.30 – 17.30, in the International Conference panel discussion session on IIW Technical Working Units

Commission XVIII Quality Management in Welding and Allied Processes

- maintains the goal to identify, create, develop and transfer global best practices in the field of quality management for welding and allied processes
- focuses on quality management systems and the qualifications for personnel and companies involved in welding and allied processes
- acts as an interdisciplinary body for the IIW, working with other Commissions to develop industry documents and standards for use by technical experts, quality managers and production personnel

At present, Commission XVIII is currently:

- Publishing a new document "IIW Recommendations and Best Practices for Welding Inspection – Tasks and Responsibilities"
- Managing ISO 22688 "Brazing - Quality requirements for brazing of metallic materials" jointly with Commission XVII
- Drafting a new ISO standard on "Soldering - Quality requirements for structural soldering of metallic materials" jointly with Commission XVII

In the future, Commission XVIII plans to:

- Perform comparative studies of criteria for auditing welding companies, followed by criteria for structural fabrication companies
- Update guidelines on the implementation of welding quality standards, for example, ISO 3834 "Quality requirements for fusion welding of metallic materials"
- Write a new Commission document "Brazing and soldering coordination: Tasks and responsibilities" jointly with Commission XVII
- Write a guidance document on risk management for welding and fabrication industries



1. OPENING OF THE MEETING AND WELCOME (08.30)

1a. (08.30) Introduction of Delegates and Experts, apologies

1b. (08.45) Antitrust statement

The **IIW Antitrust statement** should be noted. See RD-260.

1c. (08.45) Code of Conduct

The principles of the **IIW Board Code of Conduct** should be noted. See RD-202r1.

1d. (08.45) Meeting Procedures

Attendees are reminded of the following meeting procedures:

- Keep microphones muted unless permitted to speak
- Keep video off unless requesting or permitted to speak
- Use the Chat for the meeting site (not Zoom chat) to submit comments and questions

Confidentiality - The meeting will be recorded for the purpose of preparation of minutes only, and the recording will be deleted at the end of July. Any attendee can ask that the recording be stopped for confidential discussions, and also that those discussions not be recorded in the minutes.

1e. (08.50) List of Delegates

The list below indicates who has voting rights on the administrative matters discussed during this meeting, as well as for the coming year until the Singapore Annual Assembly. If you are listed but will not be present either in-person or virtually, or if your Member Country is not represented, please contact your Responsible Member Society (RMS). The RMS can update their Delegate selection at any time prior to or following this meeting.

Karl JUNO	karl.juno@tuv.at	Austria
Paolo CORRONCA	paolo.corronca@iiwelding.net	Australia
Guo XIAO	guoxiaogarden@163.com	People's Republic of China
Inderpal JASWAL	inderpal.jaswal@iiwelding.net	Canada
Juha KAUPPILA	juha.kauppila@iiwelding.net	Finland
Hans-Georg GROSS	hans-g.gross@iiwelding.net	Germany
Rituraj BOSE	rituraj.bose@iiwelding.net	India
Emanuele GANDOLFO	emanuele.gandolfo@iiscert.it	Italy
Kin-ichi MATSUYAMA	matuyama4iiw@msn.com	Japan
Italo FERNANDES	italo.fernandes@iiwelding.net	Portugal
Emma FRECKINGHAM	emma.freckingham@twi.co.uk	United Kingdom
Stanley E. GINGRICH	Stan.Gingrich@amentum.com	United States
Mathias LUNDIN	mathias.lundin@iiwelding.net	Sweden
Philippe LEBEAU	p.lebeau@isgroupe.com	France
Henk BODT	hjmbodt@online.nl	The Netherlands
Nadezhda VOLKOVA	n.n.volkova@yandex.ru	Russia



2. ADOPTION OF THE AGENDA AND MINUTES (09.00)

- 2a. (09.00) Approval of the Agenda
XVIII-0314-2022
 - 2b. (09.05) Approval of the Minutes for Intermediate meeting, online February 7, 2022
XVIII-0313-2022
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3. INFORMATION FROM THE CHAIR (09.10)

- 3a. (09.10) Progress on publication of Best Practices, Recommendations, Position Statements, etc.

IIW has contracted with Springer, IIW's publisher for Welding in the World, to now begin publishing SpringerBriefs for IIW. SpringerBriefs will be the principal method of publishing our best practices, recommended practices, guidelines, compendia, studies, position statements, and other material that is helpful and needed by the welding and joining community. Publication procedures are still being worked out.

- 3b. (09.15) WG-Technical Working Units and TMB

The name of the Technical Working Unit group for XVIII has changed from "Human Factors" to "Industry Support." Carl Peters of Commission XIV represents Human Factors on the TMB. The focus of the TMB has been revised to focus on strategic matters.

WG-TWU is focused on Commission operational matters. WG-TWU membership is the eighteen (18) Commission Chairs and the six voting members of the TMB. WG-TWU is chaired by Bob SHAW, Chair of this Commission, who also serves on the IIW Board of Directors.

- 3c. (09.15) Commission XVIII Leadership

The Chair has completed his second term as Chair of Commission XVIII at the 75th Annual Assembly in Tokyo. This follows three years as Chair of SC-QUAL.

Members of Commission XVIII are welcome to express their interest in service in the leadership of this Commission by serving in the role of a Vice-Chair, Secretary (for the purposes of taking minutes and assisting in administration), Young Professional representative, or in one of the three currently operating Task Groups (Standards, Personnel Issues, and QMS Issues) or proposed Sub-Commissions. Such interest should be expressed to the Chair and/or the Task Group Chair.



4. COMMISSION ORGANIZATION AND LEADERSHIP (09.20)

4a. (09.20) Commission Chair

No other nominations were received.

Proposed motion: Commission XVIII approves the renewal of the current Chair, Robert Shaw, for a third and final term.

4b. (09.25) Creation of Sub-Commissions

Proposed Motion: Commission XVIII is to form three (3) Subcommissions: XVIII-A Quality Personnel, XVIII-B Quality Management Systems, and XVIII-C Quality Management Standards.

4c. (09.30) XVIII-A Quality Personnel - Terms of Reference

Proposed Motion: Commission XVIII approves the proposed Terms of Reference of XVIII-A Quality Personnel as presented in Annex A, as modified, for submission as a Recommendation to the TMB.

4d. (09.40) XVIII-B Quality Management Systems - Terms of Reference

Proposed Motion: Commission XVIII approves the proposed Terms of Reference of XVIII-B Quality Management Systems as presented in Annex B, as modified, for submission as a Recommendation to the TMB.

4e. (09.45) XVIII-C Quality Management Standards - Terms of Reference

Proposed Motion: Commission XVIII approves the proposed Terms of Reference of XVIII-C Quality Management Standards as presented in Annex C, as modified, for submission as a Recommendation to the TMB.

4f. (9.50) XVIII-A Quality Personnel – Elections of Chair and Vice-Chair

Proposed Motion: Commission XV elects _____ to serve as Chair of Sub-Commission XVIII-A Quality Personnel.

Proposed Motion: Commission XV elects _____ to serve as Vice-Chair of Sub-Commission XVIII-A Quality Personnel.

4g. (9.55) XVIII-B Quality Management Systems – Elections of Chair and Vice-Chair

Proposed Motion: Commission XV elects _____ to serve as Chair of Sub-Commission XVIII-B Quality Management Systems.

Proposed Motion: Commission XV elects _____ to serve as Vice-Chair of Sub-Commission XVIII-B Quality Management Systems.



4h. (10.00) XVIII-C Quality Management Standards – Elections of Chair and Vice-Chair

Proposed Motion: Commission XV elects _____ to serve as Chair of Sub-Commission XVIII-C Quality Management Standards.

Proposed Motion: Commission XV elects _____ to serve as Vice-Chair of Sub-Commission XVIII-C Quality Management Standards.

4i. (10.05) Election for additional positions

Vice-Chair (additional position, seeking nominations)

Secretary (new position, seeking nominations)

Young Professional Representative (new position, seeking nominations)

5. PERSONNEL ISSUES TASK GROUP — Emanuele GANDOLFO (IT) (10.10)

5a. (10.10 – 10.30) "Recommendations and Best Practices for Welding Coordination to ISO 14731 – Tasks and Responsibilities" Revision 3 – February 2022 (XVIII-282R3-2022)

Henk J. M. BODT, IWE (NE)

The document was presented and discussed in detail during our previous intermediate meeting. Edits based upon those discussions are highlighted in green.

Proposed motion: Commission XVIII approves the document for publication in SpringerBriefs, subject to editorial review and improvement by a minimum of three experts of the Commission, in addition to the principal author. This document will be in the name of the Commission, with Henk BODT identified as the document's lead.

Note – This document will be further reviewed by a review committee established by WG-TWU prior to submittal to SpringerBriefs.

BREAK 10.30 — 11.00



**5b. (11.00 – 11.05) "Recommendations and Best Practices for Welding Inspection – Tasks and Responsibilities"
(XVIII-292R4-2020)**

This document was approved at the 2020 Annual Assembly for publication. Given the recent developments with an agreement with Springer to publish best practices, recommended practices, position statements, compendia, studies, and similar documents, will target for publication in an early edition of SpringerBriefs. Bibliography to be updated.

Proposed motion: Commission XVIII approves the document for publication in SpringerBriefs, subject to editorial review and improvement by a minimum of three experts of the Commission, in addition to the principal author. This document will be in the name of the Commission, with Bob SHAW identified as the document's lead.

Note – This document will be further reviewed by a review committee established by WG-TWU prior to submittal to SpringerBriefs.

**5c. (11.05 – 11.15) "Recommendations for competences for personnel involved in auditing to verify the compliance in accordance with quality system in field of welding and allied processes"
XVIII-297R3-2021 (DRAFT 3 – 2021-03-01)**

<i>Emanuele GANDOLFO (IT), Lead</i>	<i>Levente BAKOS (HUN)</i>
<i>Edward WHALEN (CAN)</i>	<i>Herman POTGIETER (ZA)</i>
<i>Hans-Georg GROSS (DE/EST)</i>	<i>Nadezda VOLKOVA (RUS)</i>
<i>Paolo CORRONCA (AUS)</i>	<i>Italo FERNANDES (PT)</i>
<i>Mathias LUNDIN (SWE)</i>	<i>Emma FRECKINGHAM (UK)</i>

The scope was extended to include ISO 14554 (resistance welding), ISO 25239 (friction stir welding of aluminium), in addition to ISO 3834 and ISO 22688.

**5d. (11.15 – 11.20) "Brazing and structural soldering coordination – Tasks and Responsibilities"
(XVIII-296r2-2020)**

Merging structural soldering into this document, to create a document on brazing and soldering coordination, as they are similar. Commission XVII involvement is needed. Task Group to be formed to continue work on this updated document, proposed as a future ISO standard.

**5e. (11.15 – 11.20) "Quality management standard for adhesive bonding"
(no document number assigned)**

This may involve Commission XVI Polymer Joining and Adhesive Technology, as well as the ISO/TC 61 – Plastics.



6. QMS ISSUES TASK GROUP — Inderpal JASWAL (CAN) (11.20)

- 6a. (11.20 – 11.30) "Improving the Quality and Effectiveness of Welding by Utilizing the Standard ISO 3834 – Guideline for Company Implementation"
(see SC-QUAL-218-15) (First draft, update to SC-QUAL-145R4-10)

<i>Hans-Georg GROSS (DE/EST)</i>	
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Document was written to ISO 3834-2005, received a review in 2010, and received an editorial and formatting review for 2015. With the recent updates to ISO 3834-series, a technical review is warranted to address changes and updates, as well as an editorial review.

Original document was published by DVS Media in 2013. ISBN 978-3-87155-902-2

- 6b. (11.30 – 11:35) "Comparative studies of criteria for welding fabricator audits"
(document number not assigned)

Document to compare CWB 47.1, AWS B5.17, AWS QC17, ISO 3834, NZS 3834 PLUS, and others as appropriate.

<i>Inderpal JASWAL (CAN), Lead</i>	<i>Michail KARPENKO (NZ)</i>
<i>Doug HAWKES (AUS)</i>	<i>Philippe LEBEAU (FR)</i>
<i>Bob SHAW (USA)</i>	

Overview may include:

Canada – CSA W47.1, CSA W47.2, CISC Guideline, and CISC Bridge Guideline

France – ISO 3834, ISO 15085 railway, ISO 1090 structural

Australia – ISO 3834, Australian Steel Institute certification

USA – AWS Certified Welding Fabricator

Direction - to see what is universal, and what may be unique to a particular audit system.

Develop a best or recommended practice for an eventual harmonized list of items to be included in a welding fabricator audits.

- 6c. (11.35 – 11.40) "Guidance on Risks in Welding Fabrication Industries"
(assigned as XVIII-295-2020)

<i>Levente BAKOS (HU), Lead</i>	<i>Bob SHAW (USA)</i>
<i>Hans-Georg GROSS (DE)</i>	<i>Doug HAWKES (AUS)</i>
<i>Michail KARPENKO (NZ)</i>	<i>Ivanov BOYAN (DE)</i>



6d. (11.40 – 11.45) "Index of Welding Quality Management System Requirements used Globally in Arc Welding Applications"
(SC-QUAL-217r1-15) (XVIII document number not assigned)

Dropped as an index, and to be rewritten as an overview document. The contents will be similar with technical references in the categories listed, but may blend EU countries, as an example. Additional support is needed from Comm XVIII members to provide information.

<i>Bob SHAW (USA)</i>	<i>Ed WHALEN (CAN)</i>
<i>Herman POTGIETER (ZAF)</i>	<i>Mathias LUNDIN (SWE)</i>
<i>Paolo CORRONCA (AUS)</i>	<i>Masaharu SATO (JPN)</i>

Product categories include:

- 1) Steel structures for civil engineering applications
- 2) Aluminium structures for civil engineering applications
- 3) Pressure equipment
- 4) Boilers
- 5) Pipelines (gaseous and liquid)
- 6) Railway vehicles
- 7) Wind energy
- 8) Nuclear power plants

Items to be included are:

- 1) Legal requirement (government law)
- 2) Product technical standard
- 3) Requirements (yes/no) for:
 - a. manufacturer certification
 - b. procedure certification
 - c. welder and operator qualification
 - d. welding coordinator
 - e. NDT technician
 - f. welding inspector

Answers to be tabulated by region, and then by country.

6e. (11.40 – 11.45) "Comparative studies of criteria for structural fabricator audits"
(document number not assigned)

<i>No LEAD established.</i>	<i>Bob SHAW (USA)</i>
<i>Edward WHALEN (CAN) or Inderpal Jaswal (CAN)</i>	<i>Michail KARPENKO (NZ)</i>
<i>Doug HAWKES (AUS)</i>	<i>Philippe LEBEAU (FR)</i>

Document to compare AISC, IAS, CWB, CISC, ISO 3834, NZS 3834 PLUS, CE / EN 1090-2, and others as appropriate. Maintained for future consideration, but no action expected for some time. No work to date, as it is to follow "Comparative studies of criteria for welding fabricator audits."



7. STANDARDS TASK GROUP — Bob SHAW (USA) (11.45)

- 7a. (11.45 – 11.55) "Soldering — Quality requirements for structural soldering of metallic materials"
 (XVIII-304-2020 Soldering — Quality requirements for soldering of metallic materials (CONCEPT 2020-07-01))

We are currently at the ISO WD (Working Draft) stage (20.20), but officially at stage 30.99.

Market applications for "structural soldering" include refrigeration, piping, heat sinks, dissimilar metals, solar panels to seal the panels and to make connections, sputtering for heat sinks for LED panels, and jewelry.

Members of XVIII familiar with "structural soldering" are requested to indicate their interest in this effort. In addition, as we did with ISO 22688 on Brazing, XVIII members are encouraged to bring in other experts from outside IIW to provide technical assistance to supplement the technical support provided by Commission XVII.

One issue is whether the two levels listed (elementary and comprehensive) are adequate, or if a third (standard) would be necessary. In the Brazing standard, the elementary level was raised to be closer to that of Standard, when compared to ISO 3834.

The revised schedule is:

Official start date	July 15, 2021
Preparation for WD ballot	ongoing
Send for WD ballot	Sept 15, 2022
WD ballot comments due	November 15, 2022
Resolve WD ballot comments	December 10, 2022
"CD" (internal) ballot issued	December 20, 2023
"CD" ballot (internal) due	returned March 1, 2023
Resolve "CD" ballot comments	March 15, 2023
Submit for approval by Commission XVIII	April 1, 2023
Submit to WG-STAND	May 1, 2023
Submit for DIS to ISO	July 1, 2023 (target March 30, 2022) (limit July 15, 2023)
Receive DIS results	January 2024 (six months)
Resolve DIS ballot	At intermediate meeting, January – February 2024
Send to ISO to publish	March 15, 2024
If FDIS needed	add 3.5 months
Standard published (target)	Original target date August 31, 2023
Standard published (limit)	July 15, 2024



8. OTHER DOCUMENTS (11.55)

8a. (11.55 – 12.00) "Welding Inspection and NDE protocols in national and international standards for steel construction"

(XVIII-298-2020, previously see SC-QUAL-192r6-13)

(note: XVIII-298-2020 document no longer in Sharepoint)

Bob SHAW (USA)

The document is being updated for publication as an IIW Booklet (may be changed to a SpringerBrief), with a substantial update and expansion of discussion. Several tables and text will be revised to avoid copyright issues with standards organizations.

Shaw requests a representative of China for information on their standards for inclusion, and requests assistance from EU, AS/NZS, CAN, JP, and China for review prior to completion. The addition of India and Russia may be considered.

8b. (11.55 – 12.00) "Comparison of ISO 5817 quality criteria to that of national steel construction standards – surface imperfections and imperfections in joint geometry" (IIW SC-QUAL-167r3-11, XV-1384r1-11, XIII-2392r1-11) (designated IIW-2583-15)

Bob SHAW (USA)

To be published as a Springer book in the IIW Collection.

Currently included standards are:

- AWS D1.1/D1.1M:2020 Structural Welding Code – Steel
- AASHTO/AWS D1.5M/D1.5:2020 Bridge Welding Code (to be published soon)
- AS/NZS 1554.1:2014 Structural steel welding - Welding of steel structures
- AS/NZS 1554.4:2014 Structural steel welding - Welding of high strength quenched and tempered steels
- AS/NZS 1554.5:2014 Structural steel welding - Welding of steel structures subject to high levels of fatigue loading
- CSA 59-18 Welded steel construction (metal arc welding)
- JASS 6 (2007) Structural Steelwork Specification for Building Construction (in English),
- Electric Power Research Institute (EPRI) NP-5380 Visual Weld Inspection Criteria

Copyright clearance from the cited standards is being sought for use of specific criteria in the document.



8c. (12.00 – 12.05) "ISO/DIS 17607:2022-X Steel Structures – Execution of Steelwork"

Developed by ISO/TC 167 Steel and aluminium structures, WG 3, the following documents are out for ISO DIS ballot with a due date of July 21. The ISO 17607-series of standards: Steel structures — Execution of structural steelwork — consists of six parts:

- ISO/DIS 17607-1 Part 1: General requirements and vocabulary
- ISO/DIS 17607-2 Part 2: Steels
- ISO/DIS 17607-3 Part 3: Fabrication
- ISO/DIS 17607-4 Part 4: Erection
- ISO/DIS 17607-5 Part 5: Welding
- ISO/DIS 17607-6 Part 6: Bolting

Members of IIW Commission XV, should they wish to participate in the continued work on these standards, should contact the appropriate standards body listed in the table below.

ISO /TC 167 Steel and aluminium structures			
P-Member (Participating)		O-Member (Observing)	
Australia (SA)	Iraq (COSQC)	Argentina (IRAM)	Philippines (BPS)
Austria (ASI)	Japan (JISC)	Belarus (BELST)	Poland (PKN)
Canada (SCC)	Netherlands (NEN)	Belgium (NBN)	Portugal (IPQ)
China (SAC)	New Zealand (NZSO)	Chile (INN)	Romania (ASRO)
Czech Republic (UNMZ)	Norway (SN)	Colombia (ICONTEC)	Saudi Arabia (SASO)
Ethiopia (ESA)	Russian Federation (GOST R)	Cuba (NC)	Serbia (ISS)
Finland (SFS)	Spain (UNE)	Greece (NQIS ELOT)	Slovakia (UNMS SR)
France (AFNOR)	Turkey (TSE)	Hungary (MSZT)	South Africa (SABS)
Germany (DIN)	United Kingdom (BSI)	Iceland (IST)	Sweden (SIS)
Iran, Islamic Republic of (INSO)	United States (ANSI)	India (BIS)	Switzerland (SNV)
		Indonesia (BSN)	Tanzania, United Republic of (TBS)
		Italy (UNI)	Thailand (TISI)
		Korea, Republic of (KATS)	Tunisia (INNORPI)
		Pakistan (PSQCA)	Viet Nam (STAMEQ)



9. NEW BUSINESS (12.05)

9a.

9b.

10. NEXT COMMISSION XVIII MEETINGS (12.10)

10a. Intermediate meeting, Genoa, Italy, week of 16 January 2023
Decision to be made if in-person only, hybrid, or virtual only

10c. 76th Annual Assembly, Singapore, 16-21 July 2023

10d. 77th Annual Assembly, Rhodes, Greece, 6-12 July 2024

10e. 78th Annual Assembly, Genoa, Italy, 22-28 June 2025

10f.

11. IIW ASSOCIATED EVENTS OF DIRECT XVIII INTEREST (12.15)

11a. Young Professional International Conference (YPIC), Sept 7, 2022 (Online)

11b. ISTS18, International Symposium on Tubular Structures, Beijing, China, postponed, October 2023

11c.

12. OTHER MEETINGS AND EVENTS OF XVIII INTEREST (12.15)

12a. I-AM 2022 International Additive Manufacturing Conference, Lisbon, October 19-20, 2022
Organized by EWF and ASME

12b.

13. ADMINISTRATIVE ITEMS (12.20)

13a. Update to Commission XVIII Terms of Reference (Parts 1 and 2)

13b. Review of Resolutions and Recommendations

14. ADJOURNMENT (12.30)



ANNEX A

XVIII-A Quality Personnel – Proposed Terms of Reference

Proposed Motion: The Terms of Reference of XVIII-A Quality Personnel are:

1. Scope and objectives – XVIII-A Quality Personnel addresses issues related to personnel involved in quality management for welding and allied processes, including the qualifications of such personnel and the tasks they perform. Issues may include personnel needs for new and existing technologies and systems, recommendations for implementation under various related standards, and the development of new standards related to such personnel.
2. Key Objectives and deliverables –
 - a) Development and publication of Best Practices, Recommendations, Compendiums, and Position Statements
 - b) Development and management of related standards in cooperation with XVIII-C and other Commissions, as applicable
 - c) Cooperate and assist relevant IAB-A Working Groups in the fields of education, training, and qualification
3. Composition and Membership –
 - a) Chair, elected by the Delegates of Commission XVIII, serves for up to two terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Chair organizes meetings (agendas and minutes) and recommends, to the Chair of the Commission, documents for consideration at meetings.
 - b) Vice-Chair, elected by the Delegates of Commission XVIII, serves for up to three terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Vice-Chair acts as Chair in Chair's absence.
 - c) Experts from Commission XVIII, without limitation to term.
4. Meeting frequency – Once per year at the IIW Annual Assembly, in conjunction with the Commission. In addition, in conjunction with any Intermediate (Winter) Meetings of the Commission, which may be virtual. It is recommended that a virtual meeting of the Sub-Commission be held at least once between the Annual Assembly and the Intermediate Meeting of the Commission, and at least once between the Intermediate Meeting and the Annual Assembly.
5. Operational responsibilities – Support the work of the Commission in the Scope of the Sub-Commission. Provide progress reports on the work of the Sub-Commission at scheduled Commission meetings, including a written annual report presented at the Annual Assembly.
6. Accountability – The Sub-Commission recommends actions to the Commission regarding their work, such as recommendations for publication of its work or individual papers related to the field of the Sub-Commission. The Sub-Commission has no formal role for authorizing publications.
 - a) Governance. XVIII-A has no strict governance accountabilities except for advising the Commission on strategic and operational issues relevant to its Terms of Reference.



- b) Reporting Responsibilities. XVIII-A Chair reports directly to the Commission Chair. Written reports and presentations are given to the Commission at its biannual meetings.
 - c) Financial. XVIII-A has no financial dealings and therefore has no financial responsibilities. Any financial implications would be presented to the Commission Chair to be addressed by the relevant body.
 - d) Conduct. Conduct of the Sub-Commission shall be in accordance with the IIW Constitution, Bye-Laws, Antitrust Policy, Code of Conduct, and other relevant IIW Reference Documents.
7. Disbandment – XVIII-A can be disbanded at the discretion of the Commission, by vote of the Delegates. Such actions are reported to the TMB.

ANNEX B

XVIII-B QUALITY MANAGEMENT SYSTEMS – Proposed Terms of Reference

Proposed Motion: The Terms of Reference of XVIII-B Quality Management Systems are:

1. Scope and objectives – XVIII-B Quality Management Systems addresses issues related to companies' quality management for welding and allied processes. This includes the elements of ISO 3834 and other relevant standards. Issues may include needs for QMSs for new technologies and systems, recommendations for implementation under various related standards, and the development of new standards related to QMSs for welding and allied processes.
2. Key Objectives and deliverables –
 - a) Development and publication of Best Practices, Recommendations, Compendiums, and Position Statements
 - b) Development and management of related standards in cooperation with XVIII-C and other Commissions, as applicable
 - c) Cooperate and assist relevant IAB-B Working Groups in the field of Quality Management Systems for companies
3. Composition and Membership –
 - a) Chair, elected by the Delegates of Commission XVIII, serves for up to two terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Chair organizes meetings (agendas and minutes) and recommends, to the Chair of the Commission, documents for consideration at meetings.
 - b) Vice-Chair, elected by the Delegates of Commission XVIII, serves for up to three terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Vice-Chair acts as Chair in Chair's absence.
 - c) Experts from Commission XVIII, without limitation to term
4. Meeting frequency – Once per year at the IIW Annual Assembly, in conjunction with the Commission. In addition, in conjunction with any Intermediate (Winter) Meetings of the Commission, which may be virtual. It is recommended that a virtual meeting of the Sub-



- Commission be held at least once between the Annual Assembly and the Intermediate Meeting of the Commission, and at least once between the Intermediate Meeting and the Annual Assembly.
5. Operational responsibilities – Support the work of the Commission in the Scope of the Sub-Commission. Provide progress reports on the work of the Sub-Commission at scheduled Commission meetings, including a written annual report presented at the Annual Assembly.
 6. Accountability – The Sub-Commission recommends actions to the Commission regarding their work, such as recommendations for publication of its work or individual papers related to the field of the Sub-Commission. The Sub-Commission has no formal role for authorizing publications.
 - a) Governance. XVIII-A has no strict governance accountabilities except for advising the Commission on strategic and operational issues relevant to its Terms of Reference.
 - b) Reporting Responsibilities. XVIII-B Chair reports directly to the Commission Chair. Written reports and presentations are given to the Commission at its biannual meetings.
 - c) Financial. XVIII-B has no financial dealings and therefore has no financial responsibilities. Any financial implications would be presented to the Commission Chair to be addressed by the relevant body.
 - d) Conduct. Conduct of the Sub-Commission shall be in accordance with the IIW Constitution, Bye-Laws, Antitrust Policy, Code of Conduct, and other relevant IIW Reference Documents.
 7. Disbandment – XVIII-A can be disbanded at the discretion of the Commission, by vote of the Delegates. Such actions are reported to the TMB.
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ANNEX C

XVIII-C QUALITY STANDARDS – Proposed Terms of Reference

Proposed Motion: The Terms of Reference of XVIII-C Quality Standards are:

1. Scope and objectives – XVIII-C Quality Standards addresses issues related to standards related to quality management for welding and allied processes, including the qualifications of such personnel and the tasks they perform, and including companies and their quality management systems. Issues may include needs for new technologies and systems, and the development of new standards related to personnel and companies.
2. Key Objectives and deliverables –
 - a) Development of new ISO International Standards (IS), Technical Specifications (TS), Technical Reports (TR), Publicly Available Specifications (PAS), using Route I or Route II, as appropriate
 - b) Management of existing ISO documents developed by XVIII, in cooperation with XVIII-A, XVIII-B, and other Commissions, as applicable



- c) Cooperate with and assist WG-STAND in standards actions related to personnel and companies involved with welding and allied processes.
3. Composition and Membership –
 - a) Chair, elected by the Delegates of Commission XVIII, serves for up to two terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Chair organizes meetings (agendas and minutes) and recommends, to the Chair of the Commission, documents for consideration at meetings.
 - b) Vice-Chair, elected by the Delegates of Commission XVIII, serves for up to three terms of three (3) years each. Extensions may be granted with special permission as stated in the relevant RD. Vice Chair acts as Chair in Chairs absence.
 - c) Experts from Commission XVIII, without limitation to term.
4. Meeting frequency – Once per year at the IIW Annual Assembly, in conjunction with the Commission. In addition, in conjunction with any Intermediate (Winter) Meetings of the Commission, which may be virtual. It is recommended that a virtual meeting of the Sub-Commission be held at least once between the Annual Assembly and the Intermediate Meeting of the Commission, and at least once between the Intermediate Meeting and the Annual Assembly.
5. Operational responsibilities – Support the work of the Commission in the Scope of the Sub-Commission. Provide progress reports on the work of the Sub-Commission at scheduled Commission meetings, including a written annual report presented at the Annual Assembly.
6. Accountability – The Sub-Commission recommends actions to the Commission regarding their work, such as recommendations or actions taken for standards. The Sub-Commission performs the technical work in drafting, editing, and updating standards under the jurisdiction of the Commission and WG-STAND.
 - a) Governance. XVIII-C has no strict governance accountabilities except for advising the Commission on strategic and operational issues relevant to its Terms of Reference.
 - b) Reporting Responsibilities. XVIII-C Chair reports directly to the Commission Chair. Written reports and presentations are given to the Commission at its biannual meetings. The Sub-Commission Chair may be asked by the Commission Chair to provide reports directly to WG-STAND.
 - c) Financial. XVIII-A has no financial dealings and therefore has no financial responsibilities. Any financial implications would be presented to the Commission Chair to be addressed by the relevant body.
 - d) Conduct. Conduct of the Sub-Commission shall be in accordance with the IIW Constitution, Bye-Laws, Antitrust Policy, Code of Conduct, and other relevant IIW Reference Documents.
7. Disbandment – XVIII-C can be disbanded at the discretion of the Commission, by vote of the Delegates. Such actions are reported to the TMB.

