COMMISSION XVIII
ON
QUALITY MANAGEMENT IN WELDING AND ALLIED PROCESSES

XVIII-279-19

DRAFT AGENDA
72ND ANNUAL ASSEMBLY - BRATISLAVA
WEDNESDAY, 10 JULY 2019
8:15 AM — 12:30 PM
CROWNE PLAZA - LONDON II

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Current Terms of Reference

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.

Commission XVIII focuses on quality management systems and the requirements for personnel and companies involved in welding and allied processes. It also develops guidelines on the implementation of quality standards, for example, ISO 3834 “Quality requirements for fusion welding of metallic materials.”

At present, Commission XVIII members are:
- updating the document "Improving the quality and effectiveness of welding by utilizing the standard ISO 3834" (SC-QUAL-145r4-10)
- preparing recommendations for auditor requirements involved with the certification of companies,
- preparing comparative studies of criteria for fabricator company audits
- preparing ISO/CD 22688 “Brazing - Quality requirements for brazing of metallic materials” jointly with Commission XVII
- preparing a draft ISO standard on “Welding inspection – Tasks and responsibilities”

Commission XVIII looks to undertake new tasks that will exchange knowledge between technical experts, quality managers and production personnel using welding and allied processes. Thus, Commission XVIII acts as an interdisciplinary body for the IIW.

Chair:
Robert SHAW   USA
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Vice Chair:
Mathias LUNDIN  Sweden
mathias.lundin@svets.se

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Tuesday, 09 July</td>
<td>XVII with XVIII resolution of ISO/DIS 22688</td>
<td>Crowne Plaza</td>
<td>12:30 pm – 2:00 pm</td>
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<td>Vienna</td>
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<tr>
<td>Wednesday, 10 July</td>
<td>XVIII</td>
<td>Crowne Plaza</td>
<td>8:15 am – 12:30 pm</td>
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1) please confirm room assignments, subject to change
Wednesday, 10 July 2019  
8:15 am – 12:30 pm  
London II, Crowne Plaza  
Bratislava, Slovakia  

1. Opening of the meeting and welcome  

1a. Introduction of Delegates, Experts and Observers, apologies  

1b. Antitrust statement  

IIW activities are based on a close, voluntary cooperation of its worldwide members with the overall target to improve the knowledge and skills in joining.  

To maintain these fruitful activities, it is strictly necessary to comply with the obligatory applicable antitrust laws during IIW working sessions, meetings and other events.  

Thus, any commercial oriented discussion, including, but not limited to  
- price fixing,  
- coordinated restrictions of production,  
- allocation of market segments or customers,  
- exchange of sensitive information between competitors such as  
  - market shares,  
  - prices,  
  - turnovers,  
  - production quantities,  
  - costs,  
  - suppliers and/or customers  

is strictly banished.  

2. Adoption of the agenda (XVIII-279-19)  

3. Adoption of minutes  

3a. (XVIII-272-19) Adoption of the minutes of meeting of XVIII held 18 July 2018 at Bali Nusa Dua Convention Center, Bali, Indonesia  

3b. (XVIII-280-19) Adoption of the minutes of intermediate meeting of XVIII held 13 January 2019 at Institut de Soudre, VILLEPINTe, FR
4. Work items - Standardization

4a. ISO DIS ballot was due 17 January 2019, PASSED 10 in favor, 1 against, 4 abstain

4b1. The following three documents are those used for 9 July joint meeting with XVII
   XVIII-276-19, ISO/DIS 22688 track changes (DIS edit) (en) (2019-06-28)

4b2. Updated documents resulting from 9 July joint meeting with XVII
To be distributed by email following the joint meeting

4c. Overview of Resolution of Comments

4d. Discussion of Resolutions, if needed

4e. Vote of DELEGATES to accept resolution of documents and move forward for ISO/FDIS ballot
   (note: You may only vote on this item if you are on the official list of national Delegates for
   Commission XVIII, on the list compiled by the IIW Secretariat, as designated in writing by
   your national delegation. If in doubt, please check with the coordinator of your national
   delegation.)

4f. After document preparation, ISO/CS circulates the FDIS (2 months) to all Member Bodies.

5. Request for support of IAB qualification, certification and education activities (XVIII-273-19)

5a. discussion of syllabi, task and volunteer request
6 Work items – Status reports / decisions on future action

6a. **Proposed document on Guidance on Risks in Fabrication Industries**

   Ed WHALEN (CAN), Joao Lopes HENRIQUES (AGO)

   Also see SC-QUAL-22-04 "ISO 3834 - Reducing Failure Risk in Welded Components" by David Shackleton, and SC-QUAL-229-16 "Proposal for a Guidance Document on Welding Risk" draft as prepared by David Shackleton (UK), June 2015

6b. **Comparative studies of criteria for fabricator audits**

   (AISC, IAS, CWB, CISC, ISO 3834, NZS 3834 PLUS, CE / EN 1090-2, others)

   Edward WHALEN (CAN) (leader), Sean BLAKE (ZA), Houman HATAMIAN (AUS), Bob SHAW (USA), Michail KARPENKO (NZ), Chris EADY (UK)

6c. **Proposed document "Recommendations for auditor requirements for certification of companies"**

   Emanuele Gandolfo (IT), Edward WHALEN (CAN), Klaus MIDDLEDORF (DE), Houman HATAMIAN (AUS), Mathias LUNDIN (SWE), Levente BAKOS (HUN), Herman POTGIETER (ZA), Chris EADY (UK)

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

   Sean BLAKE (ZAF), Hans-Georg GROSS (EST), Nwaomy OLUJIE (NGA), Houman HATAMIAN (AUS)

6e. **Index of Welding Quality Management System Requirements used Globally in Arc Welding Applications (SC-QUAL-217r1-15)**

   Sean BLAKE (ZAF), Houman HATAMIAN (AUS), Ed WHALEN (CAN), Mathias LUNDIN (SWE), Masaharu SATO (JPN)

   *Chair’s Proposal:* drop as an index, write as an overview document
6f. XVII-258r5-18 “Welding Inspection – Tasks and Responsibilities” DRAFT – 19 August 2018

6f1. ISO/TC 44/JAG "IIW-ISO/TC 44-CEN/TC 121 Coordination Committee" report

Due to an unclear scope and objective, the JAG expects ISO/TC 44/SC 11 to take note of this project and ask SC 11 members for feedback. SC 11 will have to consider the differences between this project and ISO 14731:2006 "Welding coordination - Tasks and responsibilities".

ISO/TC 44 decided to adopt JAG recommendations.


Q1. Do you wish to see this project added as a new standard under ISO/TC 44/SC 11? If you answer YES, you shall give justification in comments (mandatory). If you have no expertise or opinion, please ABSTAIN.

YES – 6
NO – 6
Abstain – 19

Q2. If this item is subsequently approved as a new project under ISO/TC 44/SC 11, would you be interested in participating in its development?

YES – 11
NO – 20

6f3. Discussion of future direction for this document

Possibilities and comments:
1) Best Practices document by XVIII
2) Address document as being for Welding Inspection Organizations
   - drop manufacturing organizations from discussion (delete 3.3, 3.5, 3.7, 3.8)
   - state as third-party inspections only
   - state as not intended to define or replace welding inspection as described in ISO 14731 or ISO 3834
3) Re-introduce concepts of 3 levels (see Table B.4)
4) Manage document within XVIII with no official representation/participation from IAB
5) Possible collaboration with Commission V (?)
6) Have the standard proposed by an ISO P-member
7) These practices should be considered for inclusion in ISO 14731 and ISO 3834
8) For the more distant future, develop a Guidance Document (EN 1090-2, USA, CAN, AS/NZS 5131, JP, China, API, ASME, others)
7. Terms of Reference XVIII-263-18 Commission XVIII Terms of Reference

7a. Discuss current document (see page 2 of this agenda)

7b. Impact of IIW Strategic Plan, if any (overview to be shown at meeting)

7c. Proposed additions and deletions
   1) Draft “Brazing coordination: Tasks and Responsibilities” document [Miglietti (US), Lundin (SE), Loots (ZA), Gandolfo (IT) have volunteered to date]  
   2) Draft “Improving the Quality and Effectiveness of Brazing by Utilizing the Standard ISO 22688 – Guideline for Company Implementation” similar to SC-QUAL-218-15 / SC-QUAL-145R4-10  
   3) Draft “Additive Manufacturing - Quality requirements for additive manufacturing of metallic(?) materials” in cooperation with Commission I Additive Manufacturing, Surfacing, and Thermal Cutting (note ASTM and ISO activities)  
   4) Soldering (similar package(s) to those of brazing)  
   5) To be determined  
   6) To be determined  
   7) To be determined

7d. Use of IIW Terms of Reference Template

7e. Approval

8. Commission XVIII organizational structure

8a. Recommendations for operations, including subdivision into task groups (informal) or subcommissions (formal)
   1) Standards working unit  
   2) QMS issues working unit  
   3) Personnel issues working unit

8b. Succession Plan (Expiration of Chair’s third term in 2022)

9. Presentations

9a. XVIII-281-19, Recommendations for Welding Inspection – Tasks and Responsibilities  
   Robert Shaw, USA

9b. open
10. Status of SC-QUAL / XVIII documents recommended for publication

10a. Inspection and NDE protocols in national and international standards for steel construction
Robert Shaw (SC-QUAL-192r6-13)
- WiW has reconsidered publication, and recommends the document be updated and expanded to be published as an IIW booklet
- Shaw to redraft and expand to include latest standards (requesting assistance from EU, AS/NZS, CAN, JP, China)

10b. Comparison of ISO 5817 quality criteria to that of national steel construction standards – surface imperfections and imperfections in joint geometry
Robert Shaw (IIW SC-QUAL-167r3-11, XV-1384r1-11, XIII-2392r1-11)
- designated IIW-2583-15
- being reviewed for needed updates prior to publication
- updates to be made prior to publication

10c. Repair rates in structural steel fabrication
Michail Karpenko, a, Holger Heinzl, Thore Broderson, Alan McClintock (XVIII-264-18)
- Document uploaded to Welding in the World system

11. Reports on related activities

11a. Report on “ISO/DIS 17607:2017 Steel Structures – Execution of Steelwork” (see SC-QUAL-228r2-16)
DIS ballot of Summer 2017 failed. At meeting of ISO TC167 WG3 and TC167 as a whole, 25 - 27 October 2017, in Paris, it was decided to withdraw the standard from consideration because there was insufficient time to revise, reballot and get approved by the ISO deadline.

The document subdivided into six parts, and reballoted as NP (New Project). All six parts passed on 08 Feb 2019:
Steel Structures:
Part 1 – General ISO/NP 17607-1 12 for, 2 against, 6 abstain
Part 2 – Steels ISO/NP 17607-2 11 for, 2 against, 7 abstain
Part 3 – Fabrication ISO/NP 17607-3 11 for, 2 against, 7 abstain
Part 4 – Erection ISO/NP 17607-4 11 for, 2 against, 7 abstain
Part 5 – Welding ISO/NP 17607-5 11 for, 2 against, 7 abstain
Part 6 – Bolting ISO/NP 17607-6 11 for, 2 against, 7 abstain

Part 7 – Corrosion protection and Part 8 – Riveting are being held back for further consideration of need.

Next meeting of ISO TC167 WG3: Monday & Tuesday, 21 & 22 October 2019, AWS Headquarters, Miami FL USA
12. Dates and places of the next XVIII meetings

12a. Intermediate meeting, January 2020, dates and location to be announced

12b. 73rd Annual Assembly, Singapore, 19-25 July 2020

12c. 74th Annual Assembly, Genoa, Italy, 20-25 June 2021

12d. 75th Annual Assembly, dates and location to be announced

13. Dates and places of IIW Associated Events of direct XVIII interest

13a. 5th IIW International Congress in India
Mumbai India, 7-9 December 2020

14. Dates and places of meetings and events of XVIII interest

14a. AWS Inspection Conference, Houston Texas USA, 21-23 January 2020
https://awo.aws.org/conferences/upcoming-conferences/inspection-conference-2020/

14b. ISO/TC 44/SC 13, Brazing materials and processes, Denver Colorado USA, 18 March 2020

14c. CEN/TC 121/SC 4, Quality Management in the field of welding, Berlin DE, 10 Dec 2020

15. Review and approval of resolutions, recommendations and administrative items

16. Adjourn (at or before 12:30 pm)