



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience

XV-1654-2023

Commission XV

DESIGN, ANALYSIS AND FABRICATION
OF WELDED STRUCTURES

C-XV Meeting, 76th IIW Annual Assembly

XV-1654-2023 **DRAFT** Agenda

18-19 July, 2023



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C-XV È DESIGN, ANALYSIS AND FABRICATION OF WELDED STRUCTURES

Chair: Dr. Stefano Botta (Italy)

Vice Chair: Dr. Jean Gerald (France)

Vice Chair: Prof. Dr. Károly Jármai, (Hungary)

XV-A: Analysis

Chair: Prof. Kyong Ho Chang (Republic of Korea)

XV-B: Design

Chair: (*currently no Chair*)

XV-C: Fabrication

Chair: Dr. Robert Shaw

XV-D: Planar Structures

Chair: Dr. Koji Azuma (Japan)

XV-E: Tubular Structures

Co-Chair: Tak-Ming Chan (China)

Co-Chair: Ben Young (China)

XV-F: Economy

Chair: Prof. Dr. Karoly Jarmai (Hungary)

JWG XIII-XV: Fatigue Design Rules

Chair: Prof. Dr.-Ing. Adolf Hobbacher (Germany)



Time: CEST

18 July 2022 **Ě Day One**

08:30 - 09:00 - **Welcome Address** (S. Botta, C-XV Chair, Italian Institute of Welding, ITALY)
- **Approval of Agenda (XV-1654-2023)**
- **Minute of hybrid 2022 C-XV Meeting (XV-1652-2022)**

SESSION 1: ADMINISTRATIVE MATTERS

09:00 - 09:10 - XV-1655-2023 **Ě Annual Report 2023 of IIW Sub-Commission XV-A Ě Analysis** (Kyong Ho CHANG)
09:10 - 09:20 **Ě XV-1656-2023 Ě Annual Report 2023 of IIW Sub-commission XV-C Ě Fabrication** (Robert SHAW)
09:20 - 09:30 - XV-1657-2023 **Ě Annual Report 2023 of IIW Sub-Commission XV-D Ě Planar Structures** (Koji AZUMA)
09:30 - 09:40 - XV-1658-2023 **Ě Annual Report 2023 of IIW Sub-Commission XV-E Ě Tubular Structures** (Tak-Ming CHAN/ Ben YOUNG)
09:40 - 09:50 - XV-1659-2023 **Ě Annual Report 2023 of IIW Sub-Commission XV-F Ě Economy** (Karoly JARMAI)
09:50 - 10:00 - XV-1660-2023 **Ě Annual Report 2023 of JWG XIII-XV** (Adolf HOBACHER)

SESSION 2: TECHNICAL PRESENTATIONS

10:00 - 10:30 - XV-1661-2023 **Ě Ultimate capacity of hot-dip galvanized ultra-high-strength steel cut edges and welded joints** (K. LIPIÄINEN, A. AHOLA, V. JAVAHERI, T. BJÖRK)

10:30 - 11:00 - XV-1662-2023 **Ě Weld HAZ in ultra-high strength steels** (M. AMRAEI, S. AFKHAMI, V. JAVAHERI, M. GHAFOURI, T. BJÖRK, A. SALMINEN, X-L. ZHAO)

11:00 - 11:20 - Break

11:20 - 11:50 - XV-1663-2023 **Ě Comparison of fatigue life and crack initiation in simple-gapped and completely overlapped N-type weld joints** (S. MUZAFFERA, K-H. CHANG, R. EGUILLOSC)

11:50 - 12:15 - Day One Closing Remarks



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Time: CEST

19 July 2023 Æ **Day Two**

08:30 - 08:40 - Welcome Address (S. Botta, C-XV Chair, Italian Institute of Welding, ITALY)

SESSION 2: TECHNICAL PRESENTATIONS (CONT.)

08:40 - 09:10 - XV-1664-2023 Æ **Distortion and Residual Stress of T-joints by Laser-arc Hybrid Welding for Steel Bridge Members** (G. CHEN, M. HIROHATA, K. HYOMA, N. MATSUMOTO, K. INOSE)

09:10 - 09:40 - XV-1665-2023 Æ **Optimization of Hot-wire Fraction for Enhance Quality in Gas Metal Arc Welding** (N. SUWANNATEE, A. N. BASKAR, M. YAMAMOTO)

09:40 - 10:10 - XV-1666-2023 Æ **Improvement of weld details to avoid brittle fracture initiating at the toes of weld access hole of the beam end - Part II. Prediction of ultimate strength of welded joint with improved details** (K. AZUMA, T. AKAHOSHI, T. IWASHITA, T. ITATANI)

10:10 - 10:40 - XV-1665-2023 Æ **Mechanical Properties of MAG butt welded dissimilar constructional steel joints with varying strength from grade S355 up to S960"** (O. BRATZ)

10:40 - 11:00 Æ **Break**

11:00 - 11:30 - Visit from the WitW Editors and the IIW Secretariat

SESSION 3: C-XV BUSINESS

11:30 Æ **11:50 - About Ugo Guerrera Prize 2025 (?)**

SESSION 4: CLOSING REMARKS

- Review of Recommendations, review of Resolutions, any other business