



**INTERNATIONAL INSTITUTE OF WELDING**

*A world of joining experience*

**XV-1635r1-2022**

## **Commission XV**

**DESIGN, ANALYSIS AND FABRICATION  
OF WELDED STRUCTURES**

**C-XV Meeting, 75<sup>th</sup> IIW (Hybrid) Annual Assembly**

**XV-1635r1-2022 ÆAgenda**

**20-21 July, 2022**



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**XV-1635r1-2022**

**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)**



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Time: CEST

20 July 2022 **Ě Day One**

14:00 - 14:20 - **Welcome Address** (S. Botta, C-XV Chair, Italian Institute of Welding, ITALY)  
- **Approval of Agenda (XV-1635-2022)**  
- **Minute of online 2021 C-XV Meeting (XV-1633-2021)**

#### **SESSION 1: ADMINISTRATIVE MATTERS**

14:20 - 14:30 - **XV-1636-2022 Ě Annual Report 2022 of IIW Sub-Commission XV-A Ě Analysis** (Kyong Ho CHANG)  
14:30 - 14:40 - **XV-1638-2022 Ě Annual Report 2022 of IIW Sub-Commission XV-D Ě Planar Structures** (Koji AZUMA)  
14:40 - 14:50 - **XV-1639-2022 Ě Annual Report 2022 of IIW Sub-Commission XV-E Ě Tubular Structures** (Tak-Ming CHAN/ Ben YOUNG)  
14:50 - 15:00 - **XV-1640-2022 Ě Annual Report 2022 of IIW Sub-Commission XV-F Ě Economy** (Karoly JARMAI)  
15:00 - 15:10 - **XV-1641-2022 Ě Annual Report 2022 of JWG XIII-XV** (Adolf HOBACHER)

#### **SESSION 2: TECHNICAL PRESENTATIONS**

15:10 - 15:30 - **XV-1642-2022 Ě Bead Shape Control on High-speed Fillet Welding using Hot-wire GMA Laser Hybrid Welding Technology** (K. MARUMOTO et AL.)  
15:30 - 15:50 - **XV-1643-2022 Ě Characteristics of Charpy Absorbed Energy in HAZ of Laser-arc Hybrid Welded Joints** (G. CHEN et AL.)  
15:50 - 16:10 - **Break**  
16:10 - 16:30 - **XV-1644-2022 Ě Japanese Welding Guideline for Duplex Stainless Steel** (H. IWAMOTO et AL.)  
16:30 - 16:50 - **XV-1645-2022 Ě On the Backward Design Concept** (T. BJÖRK)  
16:50 Ě 17:10 - **Day One Closing Remarks**



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**Time: CEST**

**21 July 2022** Æ **Day Two**

**14:00 - 14:10 - Welcome Address** (S. Botta, C-XV Chair, Italian Institute of Welding, ITALY)

**SESSION 2: TECHNICAL PRESENTATIONS (CONT.)**

**14:10 - 14:30 - XV-1637-2022** Æ **Annual Report 2022 of IIW Sub-Commission XV-C** Æ **Fabrication** (Robert SHAW)

**14:30 - 14:50 - XV-1646-2022** Æ **Evaluation of Hardness and Impact Toughness of Drawn Arc Stud Weldments on Different Structural Steel Grades** (O. BRÄTZ)

**14:50 - 15:10 - XV-1647-2022** Æ **Prediction of Welding Residual Stress and Distortion** (G. MITCHELL)

**15:10 - 15:30 - XV-1648-2022** Æ **Technology for manufacture of all-welded deployable shell structures for space purposes** (O. SHUTKEVYCH)

**15:30 Æ 15:50** Æ **XV-1650-2022** Æ **Fatigue life and crack initiation of monopile foundation by fatigue FE-Analysis** (S. MUZAFFER)

**15:50 - 16:10 - Break**

**16:10 Æ 16:30 - Online visit from the WitW Editors and the IIW Secretariat**

**SESSION 3: C-XV BUSINESS**

**16:30 Æ 16:40 - About Ugo Guerrera Prize 2025**

**SESSION 4: CLOSING REMARKS**

- Review of Recommendations
- Review of Resolutions
- Any other business