

C-X Structural Performances of Welded Joints - Fracture Avoidance

XVI-1006-19

72nd IIW Annual Assembly and International Conference 2019, Bratislava, 7–12 July 2019

Agenda

8–10 July 2019

Monday, 8 July 2019 meeting room London II, Crowne Plaza Bratislava			
1.	08:15	08:25	Preliminary Items (a) Welcome address (b) Status of C-X members (c) Approval of agenda (X-1942-19) (d) List of C-X documents (X-1941-19)
2.	08:25	08:50	Review of C-X Meeting, 2018 – 2019 (X-1943-19) (a) Approval of draft minutes of C-X meeting during Annual Assembly in Bali, 2018 (X-1932-18) (b) Approval of draft minutes of C-X intermediate meeting at DGB conference house, Freiburg (X-1940-19) (c) Status of C-X papers in Welding in the World (d) Operational plan of Commission X-FFS (e) WG on welding residual stresses in thick steel structures
3.	08:50	09:10	Review of WG-A Meeting, 2018 – 2019 (X-1956-19)
4.	09:10	09:15	Election of Vice-Chair for 2019 – 2021
5.	09:15	10:15	Development of FFS for Weld Structures X-1935r-18 Progress towards BS 7910: 2019 <i>Isabel Hadley, TWI, UK</i>
Coffee break			
6.	Fracture Toughness Testing and Evaluation		
	10:45	11:15	X-1946-19 Numerical Simulation of Crack Tip Opening Profile in Fracture Toughness Test Considering Variation of Welding Residual Stress Distribution <i>Y. Mikami, JWRI, Osaka University, JAPAN</i> <i>T. Kawabata, The University of Tokyo, JAPAN</i>
	11:15	11:45	X-1958-19 COD assessment of S960M grade steel at different temperatures <i>Z. Koncsik, G. Nagy, J. Lukacs, University of Miskolc, HUNGARY</i>
	11:45	12:15	X-1959-19 Determination of plane-strain fracture toughness using CRB specimens and their applicability for structural integrity calculations <i>J. Lukacs, Z. Koncsik, University of Miskolc, HUNGARY</i>
	19:00	23:00	Slovak Evening The Old Market Hall



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7.			Fracture Assessment of Welds
	08:15	08:45	X-1949-19 Numerical Investigation on the Brittle Fracture Driving Force and Shielding Effect of Laser Welds <i>C. Shao, H. Cui, F. Lu, Shanghai Jiao Tong University, CHINA</i> <i>Y. Takashima, F. Minami, JWRI, Osaka University, JAPAN</i>
	08:45	09:15	X-1948-19 Numerical Investigation on CTOD Estimation Methods for Laser Welds <i>Y. Takashima, F. Minami, JWRI, Osaka University, JAPAN</i> <i>C. Shao, F. Lu, Shanghai Jiao Tong University, CHINA</i>
	09:15	09:45	X-1950-19 LCF Failure Behavior of 9Cr/617 Dissimilar Welded Joint at Elevated Temperature <i>Y. Wang, H. Cui, F. Lu, Shanghai Jiao Tong University, CHINA</i>
	09:45	10:15	X-1947-19 Damage Model for Predicting Ductile Crack Growth in High Strength Steel Welds <i>M. Ohata, H. Shoji, Osaka University, JAPAN</i> <i>Y. Takashima, F. Minami, JWRI, Osaka University, JAPAN</i> <i>Y. Kayamori, Nippon Steel, JAPAN</i>
	Coffee break		
	Fracture Assessment of Welds (Continued)		
	10:45	11:15	X-1944-19 Evaluation on Prevention of Unstable Fracture by Influence of Welding Residual Stress <i>G. AN, J.-U. Park, Chosun University, KOREA</i> <i>H. Bae, POSCO, KOREA</i> <i>W. Woo, KAERI, KOREA</i>
	11:15	11:45	X-1951-19 A Strain-Based Engineering Critical Assessment for Offshore Clad Pipes with V-groove Weld and Circumferential Embedded Cracks under Large-Scale Plastic Strain <i>X. Zhao, L. Xu, H. Jing, Y. Han, L. Zhao, Tianjin University, CHINA</i>
	11:45	12:15	X-1901r-19 Numerical Study of Crack Growth in Welded Structures Using Characteristic Tensor Method – Preliminary Study on Quasi Static Crack Growth <i>Hidekazu Murakawa, JWRI, Osaka University, JAPAN</i>

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8.			C-X, C-XIII, C- XV Joint Session
			X-1953-19/XV-1588-19 A Set of Parametric K-Solutions for Fatigue Modeling of Short Cracks in Round Bar Components <i>P. Dong, X. Pei, S. Song, University of Michigan, USA</i>
			X-1954-19/XV-1589-19 Fracture Mechanics Based Evaluation of Recent Fatigue Test Data of Metallic AM Components <i>P. Dong, S. Song, University of Michigan, USA</i>
			X-1955-19/XV-1590-19 The Use of Effective Full Penetration of T-butt Welds in Welded Moment Connections <i>T. Taheri, G. Charles, G.M. Raftery, J.B.P. Lim, University of Auckland, NEW ZEALAND</i> <i>M. Karpenko, HERA, NEW ZEALAND</i> <i>P. Dong, University of Michigan, USA</i>

Presentation schedule will be informed by Commission XIII.



9.			Assessment of Welding Residual Stresses
	08:15	08:45	X-1936r-19 ANN Based Assessment of Welding Residual Stresses in Austenitic Pipe But Welds <i>F. Dittmann, S. Moroz, I. Varfolomeev, Fraunhofer IWM, GERMANY</i>
	08:45	09:45	X-1957-19 Report of Working Group on Welding Residual Stresses in Thick Steel Structures <i>J.-U. Park, G. AN, Chosun University, KOREA</i>
10.			Advanced Approaches to Material Processing and and Joining
	09:45	10:15	X-1945-19 Thermal-Mechanical FE Analysis of Laser Assisted Lap Joining of Plastics and High Strength Steel <i>Y. Okawa, Y. Kitani, Osaka University, JAPAN</i> <i>Y. Ma, N. Ma, JWRI, Osaka University, JAPAN</i>
			Coffee break
	10:45	11:15	X-1952-19 Microstructure and Mechanical Properties of High-Entropy Alloy Fabricated by Selective Laser Melting <i>D. Lin, L. Xu, H. Jing, Y. Han, L. Zhao, Tianjin University, CHINA</i>
11.	11:15	11:45	Resolutions (a) Vice-Chair of C-X (b) Prospective Action of WG-A (c) C-X FFS (d) Recommendation of documents to Welding in the World
12.	11:45	12:00	Next Meeting (a) Meeting at 73 rd Annual Assembly: 20 th (Mon.) to 22 nd (Wed.), July 2020, Singapore (b) Intermediate meeting: Date: XXXX, 2020, Place: XXXX (c) Any other business
	19:30	23:00	Gala Banquet Refinery Gallery

