

Brief BIOGRAPHY

Dr. Mustafa Koçak got his B.Sc. in Mechanical Engineering at the Middle East Technical University – Gaziantep Campus, Turkey. He has completed his Ph.D. degree at the University of Bath - UK, in 1982. He has been a post-doctorate of Materials Science in University of Liverpool till 1985.



The topic of his Ph.D. study was “Fatigue Crack Propagation Analysis of Aircraft Al-alloy Structures”, and the topic of his post-doctorate study at the University of Liverpool has been “Micro-mechanism of Ductile Fracture of Pressure Vessel Steels”.

His areas of interest are advanced welding technologies, microstructure, mechanical testing, fatigue, residual stress and defect & fracture assessment, structural integrity of welded structures.

He has published more than 200 scientific and technical papers as well as he was editor of several international conference proceedings such as;

- International Conference “WELDING-90 Technology, Material, Fracture”, 22-24 October 1990, Geesthacht, Germany. Ed by M. Koçak, 431 pages.
- International Conference “MIS-MATCHING OF WELDS”, 26-28 May 1993, Lüneburg, Germany. ESIS Publication 17, MEP-London, 1994, ISBN 0 85298 898 2, Ed by K-H Schawlbe, M. Koçak, 901 pages.
- International Conference “MIS-MATCHING OF INTERFACES AND WELDS: Performance of Strength Mis-Matched or Bonded Joints”, 24-26 April 1996, Lüneburg, Germany, Ed by K-H Schawlbe, M. Koçak, 780 pages.
- International Conference on “Fitness-for-Service: FITNET 2006: Fracture-Fatigue-Creep-Corrosion” 17-19 May 2006, SHELL, Amsterdam, The Netherlands, Ed by M. Koçak, 308 pages.
- International Conference on “Advances in Welding Science & Technology for Construction, Energy and Transportation Systems”, IIW AWST 2010, 15-16 July 2010 Istanbul, Turkey, Ed by M. Koçak, ISBN 978 605 61419 1 1.
- International Conference on “Advances in Welding Science & Technology for Construction, Energy and Transportation Systems”, IIW AWST 2011, 24-25 October 2011, Antalya, Turkey, Ed by M. Koçak, ISBN 978 605 4424 23 8.

He has coordinated several European research projects on advanced welding technologies, metallurgy and welding mechanics & design, such as;

ASPOW (European Project on Assessment of Power Beam- Laser and Electron Beam-Welds) and Chaired an European Symposium of the project at 4-5 February 1999, Geesthacht, Germany.

JOTSUP (European Project on Joining of Supermartensitic 13%Cr Steel Oil and Gas Pipes)

FITNET (European Thematic Network: Fitness for Service, www.eurofitnet.org), 2002-2006.

He has Co-Chaired together with AIRBUS Bremen/Germany, European Workshop on “Investigation on Damage Tolerance Behavior of Aluminum Alloys - IDA”, 22-23 June 2005, Geesthacht, Germany.

He was Co-Coordinator (with AIRBUS-France) of the EU Project on “Short Distance Welding Concepts for Airframes- WEL AIR”, and organized European Workshop of the project at 13-15 June 2007, Geesthacht, Germany

He has served International Institute of Welding (IIW) as a Sub-Commission Chairman, as a three terms elected Chairman of the Commission X (Structural Performances of Welded Joints- Fracture Avoidance) and as a member of the Technical Management Board (TMB).

He has Co-edited International Institute of Welding WHITE BOOK; “Improving Global Quality of Life Through Optimum Use and Innovation of Welding and Joining Technologies”, Edition 2012, ISBN 978-2-9541979-0-6, www.iiwwelding.org.

He has Co-Chaired the German National Thematic Network (DVS-VdEh-DVM) Research Group: Fracture Mechanics of Welds.

He was Co-Coordinator of the EU Technology Platform: European Industrial Safety (ETPIS) Structural Safety Group.

He was member of International Advisory Committee of numerous International Welding and Fracture Mechanics related conferences; such as (partial);

1. 8th International Welding Symposium on “ Innovations in Welding and Joining for a New Era in Manufacturing”, 16-18 Nov. 2008, Kyoto, Japan
2. 10th Biennial European Conference on Fracture – ECF10, “Structural Integrity: Experiment – Models – Applications”, 20-23 Sept. 1994, Berlin, Germany.
3. 5th International Conference “Trends in Welding Research”, 1-5 June 1998, Pine Mountain, Georgia, USA.
4. 9th International Conference on “Offshore Mechanics and Arctic Engineering – OMAE 1990”, Materials Engineering, ASME, Houston, USA (Member of Materials Committee).
5. 10th International Conference on “Offshore Mechanics and Arctic Engineering – OMAE 1991”, Materials Engineering, ASME, Houston, USA (Member of Materials Committee).
6. 11th International Conference on “Offshore Mechanics and Arctic Engineering – OMAE 1992”, Materials Engineering, ASME, Houston, USA (Member of Materials Committee).
7. 12th International Conference on “Offshore Mechanics and Arctic Engineering - OMAE”, Materials Engineering, ASME, Houston, USA (Materials Committee).
8. 14th International Conference on “Offshore Mechanics and Arctic Engineering – OMAE 1995”, Materials Engineering, ASME, Houston, USA (Co-editor of the Vol. III and Member of Materials Committee).

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In December 2010, he has been elected as Chairman of the Turkish Welding Technology Academy (TKTA).

Having worked as scientist at GKSS Research Cente from October 1984 to September 2009, Dr. Mustafa Koçak became CEO of the GEDIK Holding in Turkey in September 2009.

January 12, 2016

IIW Technical Management Board

Letter of Support for nomination of Dr. MUSTAFA KOÇAK for IIW Fellow

I write this letter in support of Dr. Mustafa Koçak for receiving an IIW Fellow. I have known him for more than 25 years. Needless to say that Dr. Koçak is one of the best-known personalities in the IIW with his great works as German Delegate & Expert in various Commissions as well as the Chairmanship of Com. X.

Dr. Mustafa Koçak has been an active expert in the IIW for nearly 30 years. He is the author of numerous IIW publications as well as international journal papers in the field of "Fracture Performance of Welds." His creditable achievement can be found in a unique research topic "Mis-Matching of Welds," focusing on the significance of global/local heterogeneity in welds. He developed this topic in fracture assessments of steel weld structures, which led to the establishment of Sub-Com. X-F "Mismatch of Welds." After leading X-F as Sub-Com. Chair, he has taken the responsibility of Chair of Com. X for three terms, 2004 to 2012.

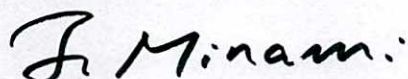
His concrete achievement in the research activities is represented by the organization of two International Conference on Mis-Matching of Weld, in 1993 and 1996. Along with the mismatch conference, he co-organized several international symposiums within the context of ASME OMAE dedicated to offshore and arctic structures and welds. Recently, he has completed a large European Project FITNET as the most active coordinator. This work was published in 2006 in three volumes, and the eventual outcome was implemented into the British Standard BS 7910 as a source document for its new revision in 2013. His technical achievement is also praised in the field of laser welding of Aluminum, which contributed to the understanding of "undermatching" behavior of lightweight structures.

Dr. Koçak has organized successfully the IIW Annual Assembly as well as the IIW Conference in Istanbul in 2010, as a responsible host. He chaired the IIW Conference 2010 and the subsequent IIW Regional Conference 2011 in Antalya. Thus he has made a significant contribution to well organized and high level running of these events that have taken place in a very short notice and first time in Turkey. Now, he is also engaged for the preparation of the second IIW Annual Assembly in Turkey in 2018.

Dr. Koçak is a co-editor of the IIW White Book, which is first one of its kind and currently he is working on the updating of this strategic document of the IIW. Recently, he is contributing to the development of the IIW ANB & ATB structures in Turkey. His significant role in the welding education and certification in Turkey is well acknowledged.

Finally, this nomination is certainly a well-deserved acknowledgement of his three decades of dedicated works within the IIW, and hence I support strongly this nomination.

Sincerely,



Prof. Dr. Eng., Fumiyoshi Minami
IIW Board of Directors
Chair of IIW Commission X
Vice Director, Joining and Welding Research Institute, Osaka University