

On the occasion of  
**100th Anniversary of Turkish Republic**



International Hybrid Conference

# **ADVANCES IN WELDING and METAL ADDITIVE MANUFACTURING TECHNOLOGIES WAM-2023**

30-31 October 2023, Istanbul – Türkiye

Chair: Prof. Dr. Mustafa Koçak

Vice Chair: Asst. Prof. Dr. Uğur Gürol

Venue: Istanbul GEDİK University, Istanbul-Pendik



**Gedik Welding**  
Since 1963



**大阪大学**  
OSAKA UNIVERSITY  
JWRI

Organised by



Istanbul  
**GEDİK**  
University



## Scope

**WAM 2023** International Hybrid Conference aims to bring scientists, engineers and students working and using advanced welding and metal additive manufacturing (MAM) technology fields in their research projects and industrial applications.

International experts in these fields will present recent developments and discuss present and future challenges and innovative solutions to increase effectiveness of the welding and metal AM and Wire Arc Additive Manufacturing (WAAM) Technologies.

During two days conference, international invited speakers will give presentations on the recent advances in welding and AM (powder and wire based) technologies and their use in major industrial applications.

Furthermore, IIW & EWF education-training-certification issues will be discussed and shortage of welders and welding engineers, inspectors, AM operators and coordinators will be addressed.

**WAM 2023** International Conference will be organised in cooperation with expert scientists from Osaka University (JWRI)-Japan, Osmania University-India and IITH- India with the IIW and EWF kind supports.

**WAM 2023** International Conference will provide opportunity to industries, universities and research institutions exhibit their recent products and developments in welding and MAM Technologies. Use of robotic and automation in both welding and WAAM Technologies will exhibited for various materials, parts and applications. Research students will have an opportunity to present their projects and discuss their results with experts.

## Who Should Attend

Scientists, welding engineers, designers, robotic engineers, software developers, inspectors, QC engineers, trainers, students who are working and interested to work in the fields of welding and powder and wire based MAM technologies.

## How to Attend

**WAM 2023** will be organised in **Hybrid form** to provide platform to face-to-face meetings as well as on-line presentations and attendance.



### Conference Organizers

Prof. Dr. Ahmet Kesik, Rector IGU

Prof. Dr. Mustafa Koçak

Asst. Prof. Dr. Uğur Gürol

Prof. Dr. Halil İbrahim Uğraş

Assoc. Prof. Dr. Savaş Dilibal

Assoc. Prof. Dr. Polat Topuz

Asst. Prof. Dr. Emine Gündoğdu İş

Dr. Ozan Çoban

Ms. Sedef Çakır Ayçiçek, MSc.

Mr. Batuhan Turgut, MSc.

Ms. Yeşim Yücel

Ms. Hülya Kümek

### Topics

**WAM 2023** International Conference will cover following topics:

- Advanced Arc Welding Technologies including Twin-arc and Tandem processes
- Laser Beam and Hybrid Welding Technologies & Applications
- Flux cored wire and seamless flux cored wire technologies and their use
- Aluminium alloys welding, testing and analysis of their welds
- High strength and armoured steel welds, their properties (incl. ballistic properties)
- Underwater and wet welding technologies and their consumables
- Design and Simulation aspects of the Metal Additive Manufacturing (MAM) materials
- Testing of MAM materials, distortion prevention and residual stresses of MAM parts
- Fatigue and fracture toughness aspects of MAM and bi-metallic WAAM parts
- Programming and software developments in robotic MAM & WAAM applications
- Testing, NDT methods and defect assessment of MAM & WAAM parts
- Developments on Education-Training-Certification of welding and MAM&WAAM personnel

### Invited Speakers

Several experts from international academia and industries will be giving lectures on the latest advances.

### Conference Proceedings and Publications

- Presented papers will be published (digital and printed) in a **WAM 2023** Proceedings.
- Selected papers will be published in an international journal (**WAM 2023** Special Issue)
- Manuscripts of max. Ten A4 pages will be requested.



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International Hybrid Conference

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**WAM-2023**

30 - 31 October 2023 Istanbul – Pendik, Türkiye

**Abstract Submission** : 30th of July 2023 (Max. 500 Words)  
**Acceptance Notification** : 15th of August 2023  
**Submission of Manuscripts** : 15th September 2023

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**Registration Fee**

200 Euro (AKBANK TR53 0004 6008 7603 6000 0654 46)

Incl. Conference Proceedings, Lunches and Coffee Breaks

Invited Speakers and Students are Free

**Exhibition**

Limited spaces will be provided to the exhibitors to present their technologies, demo-parts and results with respective posters or video presentations.

**EXAMPLES FROM METAL WIRE ARC MANUFACTURING TECHNOLOGY AT GEDİK**

