

WAM 2024



Istanbul
GEDİK
University

2. International Hybrid Conference and Exhibition **ADVANCES IN WELDING AND METAL ADDITIVE MANUFACTURING TECHNOLOGIES**



**21-22
November 2024**
Istanbul Marriott Hotel
Asia

DEADLINES
Abstract Submission
1st of August 2024
Submission of Manuscripts
1st of September 2024

Conference Chair
Prof. Dr. Mustafa KOÇAK
Vice Chair
Assoc. Prof. Dr. Savaş DİLİBAL

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Keynote Speaker



Prof. Dr. Stewart Williams
Cranfield University

Invited Speakers



Dr. Ali İhsan Koruk
BOSAL Energy, Belgium

*Utilization of Additive
Manufacturing Methods in the
Energy and Emission Sectors*



Assoc. Prof. Dr. Binnur Sagbas
Yıldız Technical University

*Additive Manufacturing and
Biomedical
Applications*



Assoc. Prof. Dr. Can Ayas
Delft University of Technology

*Design for Material Properties of
Additively Manufactured Metals
Using Topology
Optimization*



Deniz Demirci
Secretariat of Defence Industries
Advanced Materials and Energy
Programme Manager

*Defense Industry
Additive Manufacturing
Roadmap*



Prof. Dr. Emel Taban
Kocaeli University

*Purge Gas for Welding of
Stainless Steel Pipes: Must or
Luxury*



Prof. Dr. Gürel Çam
İskenderun Technical University

*Recent Advances in the
Manufacturing of Magnesium
Components Using Directed
Energy Deposition Techniques*



Prof. Dr. Iris De Graeve
Vrije Universiteit Brussel

*Corrosion Mechanisms of
Additive Manufactured Metal
Alloys Produced by Various AM
Methods*



Dr. Jonas Zielinski
Moduleworks GmbH

*The Significant Role of Software
Development for the Additive
Manufacturing
Technology*



Prof. Dr. Mitsuru Ohata
Osaka University

*Local Approach for Fracture
Assessment of Components with
Heterogeneity of Mechanical
Properties*



Prof. Dr. Mohammad Elahinia
University of Toledo

*Design and Applications on
SLM-Based Additive
Manufacturing of Shape
Memory Alloys*



Prof. Dr. Oğuzhan Yılmaz
Gazi University



Ozan Can Ozaner
Katholieke Universiteit Leuven

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Prof. Dr. Peter Mayr
Technical University of Munich



Prof. Dr. Pingsha Dong
University of Michigan

*Development of Residual
Stresses in Advanced
Weldments and Additively
Manufactured Materials: Their
Significance in Structural Safety*



Rafael Nunes
Belgian Welding Institute

*Challenges in Welding of
Additively Manufactured (WAAM
and PBF LB) Aluminium Alloy
Components*



Dr. Remzi Ecmel Ece
Turkish Aerospace Industries

*Recent Developments on
Aerospace Applications of DED
Technologies*



Sebastian Recke
GEFERTEC GmbH



Prof. Dr. Sergio Cicero González
University of Cantabria

*Fracture Toughness
Characterization of Welds by
Using Mini-CT Specimens:
FRACTESUS Project Findings*



Prof. Dr. Sergio Amancio
Graz University of Technology

*Solid-State Joining of Additive
Manufactured Metals for
Lightweight Applications*



Assoc. Prof. Dr. Simge Gençalp
Manisa Celal Bayar University



Prof. Dr. Sharam Sheikhi
Hamburg Technology University

*Innovative Control of Robots
for Manual Welding
Application*



Prof. Dr. Sriram Venkatesh
Osmania University

*Digitized Quality Inspection in
Welding Production Role and
Significance of the Software for
the Development of Additive
Manufacturing Technology*



Tansu Göynük
Roketsan



Dr. Tomoyuki Ueyama
OTC Daihen



Assoc. Prof. Dr. Ulaş Yaman
Middle East Technical University



Prof. Dr. Zuheir Barsoum
KTH Royal Institute of Technology

*Digitized Quality Inspection in
Welding Production Role and
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TOPICS

- *Advanced arc welding technologies including twin-arc and tandem processes*
- *Laser beam and hybrid welding technologies & applications*
- *Wire-feed or powder electron beam welding*
- *Flux cored wire and seamless flux cored wire technologies and their use*
- *All metal alloys welding, testing and analysis of their welds*
- *Industrial applications, inspections and tests*
- *Surface modification of additive manufacturing parts*
- *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*
- *Predictive theoretical and computational approaches for additive manufacturing*
- *Testing, NDT methods and defect assessment of MAM & WAAM parts*
- *Developments on Education-Training-Certification of welding and MAM & WAAM personnel*

CONFERENCE PROCEEDINGS AND PUBLICATIONS

- *Presented papers will be published (digital) in a WAM 2024 Proceedings.*
- *Selected papers will be published in an International Journal of New Findings in Engineering, Science and Technology (IJONFEST) (ULAKBIM)*
- *Manuscripts of max. Ten pages will be requested.*