



KEYNOTES

3D Components
AIT Austrian Institute of Technology
Alstom Transport Deutschland GmbH
AM Power
Brandenburg University of Applied Science
EWM
FH Kiel
FIT AG
GEFERTEC
Howden, A Chart Industries Company
Siemens AG
Siemens Energy
TU Ilmenau
TU Wien
University of Technology Chemnitz
voestalpine Böhler Welding
and many more

WAAMATHON
2 B E R L I N

MAY 21 2025 Steigenberger am Kanzleramt
Berlin, Germany

Sponsored by

GEFERTEC



Media Partners

AddMag
KONSTRUKTION FÜR ADDITIVE FERTIGUNG

KONSTRUKTION
& ENTWICKLUNG

xtechnik
ADDITIVE FERTIGUNG

METAL AM

3D
natives

**Dr. Jan-Marc Lischka**

B.I.G. Holding SE

Dear Attendees,

Industrial manufacturing is at a turning point: efficiency, flexibility and resource conservation are more crucial than ever. In this context, Wire Arc Additive Manufacturing (WAAM) is rapidly gaining in importance. This innovative manufacturing technology makes it possible to produce highly complex metal components economically and sustainably – from prototypes to individual small series production.

But how can the full potential of WAAM be exploited? What developments are driving the industry forward? And how can companies integrate this technology into their processes? You will find answers to these and many other questions at WAAMathon #2 Berlin, the leading platform for WAAM innovations and best practices.

You can look forward to exciting specialist presentations, inspiring practical reports and a direct exchange with experts. Experience the latest developments up close, discuss challenges and opportunities and make valuable contacts in the WAAM community.

Join us and help shape the future of additive manufacturing!

We are looking forward to seeing you.

ABOUT THE EVENT

The WAAMathon is the only event exclusively focused on WAAM, bringing together experts, thought leaders, and decision-makers from the field of additive manufacturing. This event highlights Wire Arc Additive Manufacturing (WAAM), a type of directed energy deposition (DED) technology that uses an electric arc to melt metal wire, which is then deposited layer by layer to build up large metal parts for industrial applications.

Join us at the Steigenberger Hotel am Kanzleramt in Berlin! Located near the main station, this luxurious hotel blends elegance with modern comfort. The high-tech rooms ensure a seamless event. Enjoy exquisite dining, relax in the spa and explore Berlin's iconic sights. We're confident you'll have a productive and enjoyable time here.



5 Reasons to participate

1

In-depth Practical Knowledge Instead of Surface-Level 3D Printing Topics

Many additive manufacturing events only touch on WAAM as a side topic. This event, however, is fully dedicated to WAAM, featuring hands-on insights, practical presentations, and live demonstrations.



2

Economic Assessment of WAAM – When Does It Really Pay Off?

Learn when WAAM is truly cost-effective and in which applications it can replace conventional manufacturing – directly from industry experts.



4

Scalability & Industrialization: WAAM for Series Production

Most current WAAM applications focus on prototypes or unique parts. What about the future? Get exclusive insights into automated and industrial WAAM processes.



3

Impact of Standards & Certifications on WAAM

WAAM is evolving – but how does the regulatory landscape look? What certifications are required? This event provides valuable insights for companies aiming to industrialize WAAM.



5

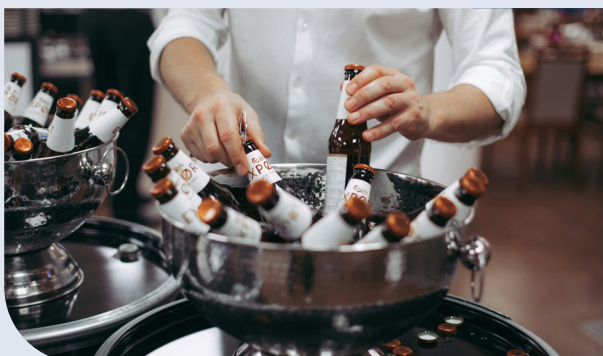
Networking with Users and Suppliers

Whether you are a supplier, engineer, or decision-maker – connect with key industry players who are already successfully using WAAM or planning to implement it.



AGENDA – STAGE 1

| | |
|-------|--|
| 08.30 | Check-In Accreditation |
| 09.00 | Welcome Address – Dr. Jan-Marc Lischka, B.I.G. Holding SE |
| 09.10 | The Niche of WAAM: Defining Its Place Between DED-LW and SAAM Carl Fruth – FIT AG |
| 09.40 | Investigations of Cored Wires in DED-Arc Process Dr. Jörg Hildebrand – TU Ilmenau |
| 10.10 | Coffee Break |
| 10.30 | DED Technologies as a Growth Driver within the AM Industry Matthias Schmidt-Lehr – AM Power |
| 11.00 | Showcasing the Possibilities of WAAM Processing Challenging Aluminum Alloy Classes Martin Klein – AIT Austrian Institute of Technology |
| 11.30 | The Future of WAAM: Intelligent Process Control with AI-Powered Tools Amin S. Azar – 3D-Components AS |
| 12.00 | WAAM!: Last Christmas – How to stop OEMs from out love with wire-arc AM Iain Berment-Parr – IRT Jules Verne |
| 12.30 | Lunch |
| 13.30 | TITANIUM TITANS – The Remarkable World of Aerospace Manufacturing and the WAAM Evolution Sebastian Recke – GEFERTEC GmbH |
| 14.00 | Fatigue Performance of WAAM Parts with Unprocessed Surfaces Prof. Dr. Jonas Hensel – University of Technology Chemnitz |
| 14.30 | DED-Arc Manufactured Pressure Vessels for Subsea Applications Dr. Afif Batal – Deep Manufacturing |
| 15.00 | Coffee Break |
| 15.20 | Process Strategies for Increased Surface Quality in WAAM Robert Lau – Fraunhofer-Einrichtung für Additive Produktionstechnologien IAPT |
| 15.50 | Process-oriented Digital Twin in Wire Arc Additive Manufacturing Dr. Raven Reisch – Siemens AG |
| 16.20 | Grain Structure Engineering During WAAM of High Strength Steels Dr. Mark Taylor – University of Manchester |
| 16.50 | tba |
| 17.20 | Final Statement Closing – Dr. Jan-Marc Lischka, B.I.G. Holding SE |



GET-TOGETHER

We invite you to a unique get-together!

Deepen your knowledge of the day's topics, make new contacts and celebrate with us at a convivial get-together in a great location in the heart of Berlin.

Let the day come to an end in a cozy atmosphere and experience an unforgettable evening!

AGENDA – STAGE 2

| | |
|-------|---|
| 08.30 | Check-In Accreditation |
| 09.00 | Welcome Address – Dr. Jan-Marc Lischka, B.I.G. Holding SE |
| 09.10 | Life Cycle Assessment of a WAAM Manufactured Multi Material Part for Hydro Power Stations Dr. Martin Schmitz-Niederau – voestalpine Böhler Welding Group GmbH |
| 09.40 | RAMFLICS – Robust AM of Functional, Lightweight, Integrated and Customizable Metal Structures Prof. Dr.-Ing. Sven-Frithjof Goecke – Brandenburg University of Applied Science |
| 10.10 | Coffee Break |
| 10.30 | A New Process Approach for Energy-Controlled AM of Large Scale Parts Michael Knester – EWM |
| 11.00 | Applying WAAM for Compressor Impellers: From Prototype to Real Application Elvir Murati – Howden, A Chart Industries Company |
| 11.30 | WAAM – The Robust Process for Mobile Repair Prof. Dr.-Ing. Alexander Mattes – FH Kiel |
| 12.00 | Contact Tip: A Tiny Marvel with a Mighty Impact. The Journey to a Thriving Business Case. The Siemens Energy and CEP Story René Liers – Siemens Energy & Eric Irmer – CEP |
| 12.30 | Lunch |
| 13.30 | Advantage of CNC Robots in Additive Manufacturing Heinz-Ingo Schneider – Siemens AG & Philippe Verlet – VLM Robotic |
| 14.00 | WAAM Provides Spare Parts for Railway Rolling Stock, even Dynamic Loaded Ones Uwe Jurdeczka – Alstom Transport Deutschland GmbH |
| 14.30 | From Research to Industry: Exploring WAAM for Sustainable Hydropower Manufacturing Franz-Jakob Matschnig – TU Wien; Institute of Production Engineering and Photonic Technologies |
| 15.00 | Coffee Break |
| 15.20 | The ecosystem of WAAM at the Production Technology Center – Present and Future Research Joel Andersson – University West (Sweden) |
| 15.50 | tba William Priest – Kingsbury |
| 16.20 | tba |
| 16.50 | tba |
| 17.20 | Final Statement Closing – Dr. Jan-Marc Lischka, B.I.G. Holding SE |
| 17.45 | Shuttle Service to Weekend (Club Loft Rooftop) |
| 18.00 | Shuttle Service to Weekend (Club Loft Rooftop) |
| 18.15 | Shuttle Service to Weekend (Club Loft Rooftop) |
| 19.00 | Get-Together & Networking Event – Weekend, Alexanderstr. 7, 10178 Berlin |

Sponsors

GEFERTEC

GEFERTEC

The company offers complete manufacturing systems for metal 3D printing using the Wire Arc Additive Manufacturing (WAAM) process. For this purpose, traditional gas metal arc welding is combined with special process expertise for the additive construction of components, a robust machine system, integrative CAM software and process-related quality assurance. The robust process, the high build-up rates and the simple handling of wire as a feedstock make the process interesting for the production of medium-sized to large components.



voestalpine Böhler Welding

voestalpine Böhler Welding is a leader in the welding industry with over 100 years of experience, more than 50 subsidiaries and more than 4,000 distribution partners around the world. The extensive product portfolio and welding expertise combined with the global presence guarantees that voestalpine Böhler Welding is close when you need support around welding. Having a profound understanding of your needs enables voestalpine Böhler Welding to solve your demanding challenges with Full Welding Solutions – perfectly synchronized and as unique as your company.

Media Partners



3D natives

3Dnatives is your online medium for the latest news about 3D printing. On its website, the online medium informs you daily in five languages about new applications of additive manufacturing and brings you closer to the technology.



AddMag and Konstruktion&Entwicklung

Schlütersche is a modern, traditional company that has been at the side of its customers since 1747 and continues to develop with them. AddMag keeps you up to date on new processes, materials, software tools and practical applications in additive manufacturing. Konstruktion&Entwicklung offers in-depth background reports and valuable facts for designers and developers - for a knowledge advantage that counts.



Metal AM

Metal Additive Manufacturing magazine is the international go-to resource on all aspects of the 3D printing industry. Each quarterly issue offers exclusive in-depth articles, industry insights and the latest news to keep you ahead of the curve in the fast-paced world of metal AM.



ADDITIVE MANUFACTURING

The trade magazine ADDITIVE FERTIGUNG is aimed at the manufacturing industry in Germany, Austria, Switzerland and South Tyrol and offers readers industry-specific expertise on the most important additive manufacturing processes at the cutting edge of technology.

CONTACT



Sales

Mareike Peschel is dedicated in Sales with a knack for building strong customer relationships and a passion for delivering outstanding service.



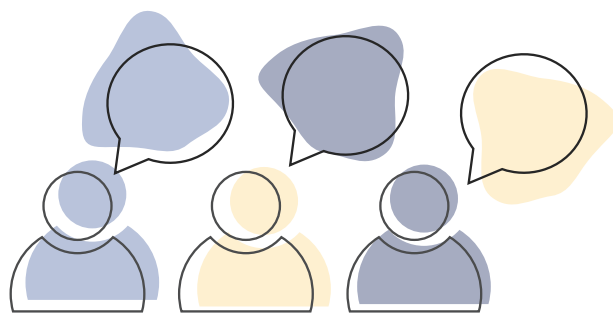
Marketing

Juliane Wittwer is a visionary Marketing Manager with a talent for crafting innovative strategies and a proven track record of driving brand growth.



Social Media

Nhi Tran is bubbling over with creativity and always brings fresh ideas for social media. She also makes a significant contribution to enhancing brand visibility.



Connect with our team for any inquiries, assistance or additional information you may need.

B.I.G. Holding SE
Schwarze-Pumpe-Weg 16 | 12681 Berlin | Germany
waamathon@berlin.industrial.group