

European Military Additive Manufacturing Symposium

14 —16 January 2020

Symposium organization

Gesellschaft zur Förderung der wehrwissenschaftlichen Forschung und Technologie (GFT) e.V.

at

Bundeswehr Research Institute for Materials, Fuels and Lubricants (WIWeB)
 Institutsweg 1, 85435 Erding (Germany)
 Tel. +49 8122 9590-3700
 E-Mail: wivebsymposium@bundeswehr.org

Registration for symposium:

Yvonne Böhm-Bayer
 Tel. +49 8122 9590-3700
 E-Mail: wivebsymposium@bundeswehr.org

Point of contact for additional information:

Felix Zimmer
 Tel. +49 8122 9590-3316
 E-Mail: 3D-Druckzentrum@bundeswehr.org

Costs

The participation fee for the entire event is **300 €**.
 Speakers do not have to pay a participation fee.

The fee is due upon registration. You will receive the bank details on the invoice, which will be sent to you after the reception of the registration form.

The fee includes: coffee and refreshments, lunch, reception at the county council Erding and dinner.

Not included are costs for transfer or hotel.

EDA workshop

EDA workshop on thursday afternoon is restricted to national representatives only.
 There is no fee for the workshop.
 There is a separate registration for the workshop.

For further information please contact:

Martin Huber
 Tel.: +32 2 504 2828
 E-Mail: martin.huber@eda.europa.eu

For further and **updated information** please visit the website or scan the QR-code below:

<https://gft-erding.de/?p=131>



Arrival by train

Arriving at Munich central station, take the S-Bahn to Erding (line S2, direction Ostbahnhof). Erding is the last stop.

Taxi (recommended):
 From Erding station it takes about 10 minutes to WIWeB by Taxi.

Alternatively by bus (few connections):
 Take bus 580 towards „Eichenkofen“, exit at stop „Altham, Institut“.

Arrival by car

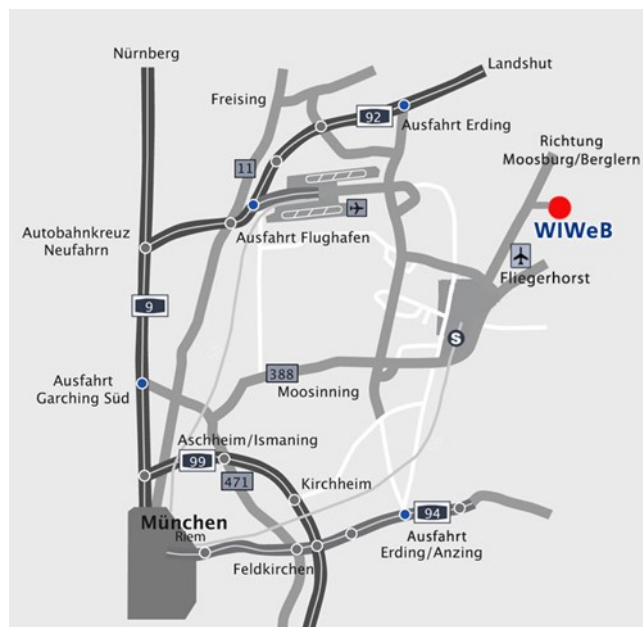
Leave the A92 at the exit München-Flughafen to Erding. Follow the signs to Erding Nord. In Erding keep in the direction of Moosburg, while driving past the air base by the approximately 3 km long district Langengeising. About 500 meters after the end of the village, WIWeB is located on the right side.

Additional Note: In case your navigation system does not find „Institutsweg“, please use „Mühlfeld“ as alternative adress.

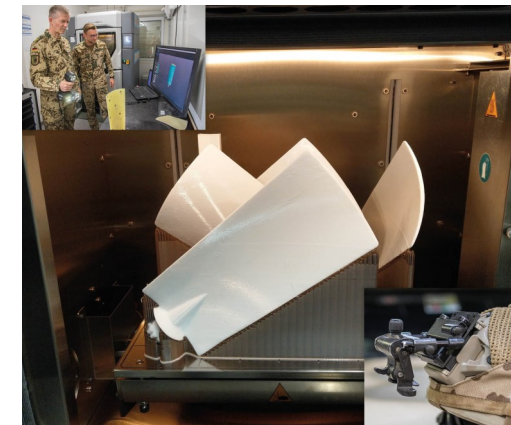
Arrival by plane

Taxi (recommended):
 From Munich Airport it takes about 15 minutes to WIWeB by Taxi.

Alternatively by bus (few connections):
 Take bus 512 towards „Erding“, exit at last stop „Erding Bahnhof“.
 Take bus 580 towards „Eichenkofen“, exit at stop „Altham, Institut“.



map (source: Bundeswehr/WIWeB)



QR-Code for latest programme



Tuesday, January 14th

- 12:00-13:00** **Registration**
- 13:00-13:30** **Welcome by Chairman**
Director and Professor Dr. Wolfgang Kreuzer, WIWeB
Dr. Wolfgang Uedelhoven, President GFT Erding e.V.
- Administrative issues**
Felix Zimmer, WIWeB
- 13:30-15:00** **AM for the Armed Forces**
Dr. Jens Holtmannspötter, WIWeB (GER)
- EDA Perspective on Additive Manufacturing as a Military Capability**
Martin Huber, EDA Project Officer Deploy Ability (EU)
- AM in French Ministry of Armed Forces Experiences and Development Focuses**
Anthony Martin, DGA Techniques Aéronautiques (FRA)
- Current and Future AM Activities within the Netherlands Defense**
Sander Wanningen, A.M.E.C. (NLD)
- 15:00-15:30** **Coffee Break**
- 15:30-17:00** **AM Activities of the Bundeswehr (German Armed Forces)**
Felix Zimmer, WIWeB (GER)
- AM as a Trusted Production Method for Defence Applications – how to get there?**
Bendik Sagsveen, FFI (NOR)
- Operationalizing Additive Manufacturing for the US Army**
Andrew Davis, US Army (USA)
- Cyber Innovation Hub of the Bundeswehr –accelerating innovations to our soldiers**
Christian Hösle, Cyber Innovation Hub (GER)
- 18:00** **Evening Event**
Reception and dinner at the County Council of Erding

Wednesday, January 15th

- 09:00-10:30** **AM @ Hensoldt - Experience & Way To Work**
Jörg Sander, Hensoldt (GER)
- AM - Business transformation from prototypes to serial components**
Ralph Merget, Oerlikon AG (CH)
- Additive Roadmap: From Rapid Prototyping to Recognized Production Technology according to Nadcap Standard**
Christoph Hauck, MBFZ toolcraft GmbH (GER)
- We Print to Drive - 3D Printing as Obsolescence Solution?**
Stefanie Brickwede, Mobility goes Additive e.V. (GER)
- 10:30-11:00** **Coffee Break**
- 11:00-12:30** **"In-field Additive Manufacturing" - Experiences, Plans and Future Developments**
Christian Duun Norberg, Fieldmade (NOR)
- Additive Manufacturing Technology Demonstration for the Defence Sector**
Paula Queipo Rodriguez, IDONIAL (SPA)
- 3D Printing in the Field - Experiences made in Afghanistan**
Maximilian Krönert, WIWeB (GER)
- Just in Time Fabrication of Medical Skull Implants using Additive Manufacturing**
Eugen Musienko, Helmut-Schmidt-Universität (GER)
- 12:30-13:30** **Lunch**
- 13:30-15:00** **Metal AM Integration in an Industrial Eco-System - now and in the nearer Future**
Florian Feucht, DMG MORI/Realizer GmbH (GER)
- Application Potential of 3DMP Technology in Defence Engineering**
Dr. Norman Herzig, Nordmetall GmbH; Markus Ortloff, Gefertec GmbH (GER)
- From Parts Realism to Manufacturing of Enduse Parts with Use Cases from Defence Applications**
Christoph Lindner, Stratasys Ltd. (USA)
- Economic Evaluation of AM in Defense - Business Models for Armed Forces?**
Dr. Andreas Glas, Bundeswehr University Munich (GER)
- 15:00-15:30** **Coffee Break**
- 15:30-17:00** **Additive Manufacturing in Defence Technology - Opportunities and Challenges.**
Thomas Kerk, Rheinmetall (GER)
- Making it Fly**
– First Parts for Certification in Eurofighter and P-3C
Stefan Seifert, System Support Centre Eurofighter/Airbus DS (GER)
- Flying Structural AM Parts made by PAG – Applications for military and civil aircraft**
Dr. Thomas Bielefeld, Premium AEROTEC (GER)
- Additive Manufacturing in Naval Shipbuilding**
Christoph Klein, Thyssen Krupp Marine Systems (GER)
- 18:00** **Evening Event**
Dinner at the Erdinger Weißbräu

Thursday, January 16th

- 08:30-10:00** **AM of Energetic Materials**
Joost van Lingen, TNO, Rijswijk (NLD)
- 3D Printed Electronic Components**
Tobias Hehn, WIWeB; Rolf Baltes, Hensoldt (GER)
- Additive Manufacturing of Ceramic Materials**
Prof. Jens Günster, BAM (GER)
- Component Design and Manufacturing Studies using Industrial 3D Metal Printers and Research on Application Concepts for Effectors and Protection**
Aron Pfaff, Fraunhofer EMI (GER)
- 10:00-10:30** **Coffee Break**
- 10:30-11:45** **Innovative Solutions for Intelligent Inspection of Products of Selective Laser Melting from Metallic Powders**
Ph.D. Alexander Kravcov, Technical University Prague (CZ)
- Produces Independent Quality Monitoring in Additive Manufacturing of Metals**
Anja Rupprecht, Diehl Defence GmbH & Co. KG (GER)
- Industrial Ready Quality with Additive Manufacturing, via Standards, Certification, Trainings and Digital Quality Assurance**
Gregor Reischle, TÜV SÜD GmbH (GER)
- 12:00** **End of Symposium**
- 12:00-13:00** **Working Lunch**
- 13:00-17:30** **European Defence Agency AM Workshop**
-  **EUROPEAN DEFENCE AGENCY**
- (for registered National Representatives only)**