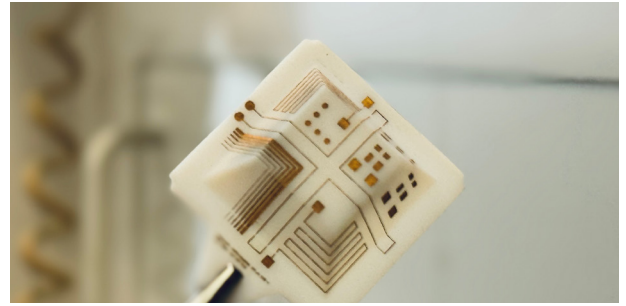


MID Summit & MID Workshop

23rd – 24th October 2024

Stuttgart, Germany



Wednesday 23rd – Thursday 24th October 2024

Location: Hahn-Schickard,
Institute of Microassembly Technology,
Allmandring 9b, 70569 Stuttgart

Invitation

MID Summit & MID Workshop 2024: A Joint Event by Hahn-Schickard & 3-D MID e.V.

Following the very successful joint event organized by Hahn-Schickard and 3-D MID e.V. in 2022, we are excited to announce that we will once again be hosting this event together this year. Join us for an industry get-together on October 23rd and 24th in Stuttgart.

This two-day event will feature expert presentations from industry and research on new MID applications and technologies, alongside presentations from innovative start-up companies. Additionally, there will be a poster session displaying current research projects, as well as a trade exhibition. Furthermore, participants will have the opportunity to engage in variety of workshops on MID-related topic.

Do not miss the opportunity to gain new insights and exchange ideas. Register for the event here: <https://www.3d-mid.de/en/events-1/mid-summit-the-platform-for-mid-technologies/>

If you are interested in presenting your institute or company at the trade exhibition with a table top presentation, please register here (Please note that the number of slots is limited.): <https://www.3d-mid.de/en/events-1/mid-summit-the-platform-for-mid-technologies/registration-mid-summit-mid-workshop/>

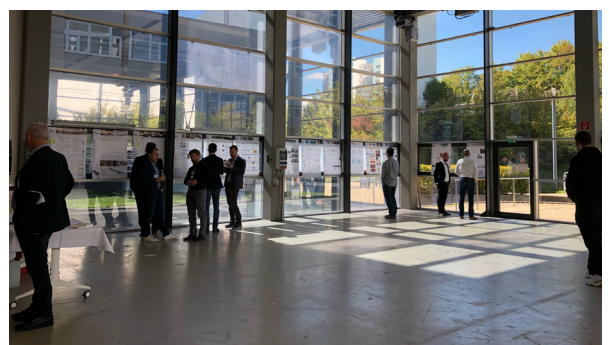
We look forward to your visit!



Technical Presentations



Poster Sessions



Trade Exhibition

Program

Wednesday, 23rd October

9:15 AM Welcome by Prof. André Zimmermann, Hahn-Schickard and Prof. Jörg Franke, 3-D MID e.V.

9:30 AM Opening with Keynote by Prof. Florian Risch, Lehrstuhl für Fertigungsautomatisierung und Produktionssystematik (FAPS)

Applications + Technologies

- 10:00 AM SolarTAP - A technology acceleration platform for emerging PV technology from the lab to the fab
Wolfgang Mildner, Forschungszentrum Jülich GmbH
- 10:30 AM Atmospheric plasma spray for current collectors in solid-state batteries
André Borchers, Fraunhofer Institute for Ceramic Technologies + Systems IKTS
- 11:00 AM Additive manufacturing in power electronics
Dr. Thomas Stoll, TUM School of Engineering and Design
- 11:30 AM to be defined

12:00 PM Lunch break, Exhibition and Poster Session of Current Research Projects

Applications + Technologies

- 1:00 PM Next generation low loss & plateable LCP solutions
Otmar Bade, Celanese GmbH
- 1:30 PM Bonding mechanisms of copper metallization via atmospheric plasma spraying on power electronic chips
Manuela Ockel, Lehrstuhl für Fertigungsautomatisierung und Produktionssystematik (FAPS)
- 2:00 PM 3D ceramic circuits: applications and benefits going beyond electronics
Frederik Luppens, CERcuits BV
- 2:30 PM Microscopy, spectroscopy and materials data to advanced sodium based solid state batteries
Prof. Silke Christiansen, Fraunhofer Institute for Ceramic Technologies and Systems IKTS
- 3:00 PM Assembly and connection technologies on 3D-capable substrates
Kai Werum, Hahn-Schickard

3:30 PM General Meeting of 3-D MID e.V.
For Non-Members: Speed Dating Session

4:30 PM Networking, Exhibition and Poster Session of Current Research Projects

6:00 PM Evening Event, Catering and Drinks

Thursday, 24th October

9:00 AM Opening with Keynote by Prof. Alexander Brem, Institute of Entrepreneurship and Innovation Science (ENI)

Start-up companies

- 09:45 AM Tagless traceability for MIDs
Dr. Benedikt Wigger, Detagto GmbH
- 10:00 AM Test methods for aluminium flex layer substrates
Martin Muckelbauer, Powerlyze GmbH
- 10:15 AM Laboratory automation for R&D in printed electronics
Tobias Stubhan, Sciprios GmbH
- 10:30 AM Short coffe break
- 10:45 AM Digitally qualify circuit board layouts and THT soldering processes
Dr. Reinhardt Seidel, DEEPTRONICS GmbH
- 11:00 AM Production technology for coil modules for inductive power transfer
Maximilian Kneidl, Seamless Energy Technologies GmbH
- 11:15 AM Printed electronics - managing quality challenges
Wolfgang Mildner, TestCenter MSWtech/ BayflexSolutions
- 11:30 AM to be defined
Lukas Boxberger, Fraunhofer-Institut für Werkzeugmaschinen und Umformtechnik IWU, Biomechatronik

12:00 PM Lunch break, Exhibition and Poster Session of Current Research Projects

13:00 PM Individual Workshops - Choose your Topic:

Workshops

- Design theory and similarity mechanics led by PD Dr. Stephan Rudolph
- New research areas for MID led by Dr. Wolfgang Eberhardt, Dr. Andrea Knöller
- 3D construction technology in power electronics led by Dr. Bernd Bitterlich
- Printed 3D electronics led by Dr. Kerstin Gläser, Dr. Tobias Vieten

3:00 PM Networking, Exhibition and Poster Session of Current Research Projects

3:30 PM Summary of Workshop Results

4:00 PM Summary of the Event and Outlook by Prof. André Zimmermann, Hahn-Schickard and Prof. Jörg Franke, 3-D MID e.V.