

Business Trip Report

Name: Abdallh Ismail Herbawi
 Destination: Bad schandau, Germany
 Event: Microprinting 2024
 Departure: 18.03.2024 Return: 20.03.2024

Contents (in detail!):

~~Session 1: Materials for Microprinting~~

Workshop Program

Monday, 18.03.2024

Session 1: Materials for Microprinting

	09:00		<i>Opening remarks</i>
		Marco Fritsch	
T1	09:15	Fraunhofer IKTS	<i>Material properties for a successful microprinting</i>
		Brittany Newell	
T2	09:45	Purdue University	<i>The Next Steps: 4D Printing</i>
		Volker Zöllmer	
T3	10:15	Fraunhofer IFAM	<i>Material development for Aerosol Jet – printed sensors</i>
		Yeohoon Yoon	
T4	10:45	TU Dresden	<i>Photocurable solid electrolyte for fast and printable transistors</i>

11:10

Break

Session 2: Emerging Microstructure Printing Techniques – Part 2

T5	11:40	Prashantkumar Pandey Fraunhofer IKTS	<i>Manufacturing of Hybrid Ceramic Components using Multimaterial</i>
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T6	12:00	Laura Barillas-Mora Leibniz – INP	<i>SurfAP3® – Direct Writing Plasma Microprinting for Localized Surt</i>
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T7	12:30	Robert Kirchner Heteromerge	<i>Functional two-photon 3D printing with a novel quantum dot resin exchange</i>
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12:50

Lunch Break

Session 2: Emerging Microstructure Printing Techniques – Part 2

T8	14:20	Tönnis Trittler EKfZ	<i>Additive manufacturing of acoustic materials for ultrasonic applications polymerization lithography</i>
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T9	14:40	Iman Frozānpoor IFW Dresden	<i>Surface Acoustic Wave Aerosol Printing</i>
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T10	15:00	Hannes Lauer Fraunhofer IWS	<i>Focussing of Aerosol Generated by SAW</i>
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15:20

Company Pitches

15:40

Coffee Break

16:00

Poster Session & Company Session

18:00

BBQ / Dinner

Tuesday, 19.03.2024

Session 3: Scaling of microprinting from lab to ind

T11	09:00	Michael Pfeffer Neotech AMT	<i>3D Microprinting techniques for industrial application.</i>
T12	09:30	Daria Więclawska XTPL S.A.	<i>Tailored solutions for advanced microprinting applica.</i>
T13	10:00	Kim Eiroma VTT	<i>Reverse offset printing: a versatile method for μm-level for flexible electronics</i>
	10:30		Break

Session 4: Bioprinting Technologies

T14	11:00	Steffan Howitz GeSiM	<i>Explore the Future of Printing: Unleashing Innovation Bioprinters</i>
T15	11:20	Sophie Dani TFO	<i>Utilizing drop-on-demand bioprinting for the precise placement cells within hydrogel strands</i>
T16	11:40	Meng Zhang DKFZ Dresden	<i>3D Printed Microrobot for Biomedical Applications</i>
T17	12:00	Huanghao Dai University of Southampton	<i>Reverse Offset Printing for Enhanced Interdigital Capacitance Monitoring Atopic Dermatitis</i>
	12:20		Lunch Break

14:30 Hiking tour in Saxonian Switzerland

18:30 Conference Dinner

Wednesday, 20.03.2024

Session 5: Applications for printed microstructures – I

T18 09:00 John Fahlteich
KETMarket *Open Innovation for thin film vacuum coating in Europe*

T19 09:30 Kristina
Lovrek
OrelTech *Smartlab2: Thermoforming of polymer foils with pre-applied metallization
OrelTech's next-generation metallization technology*

T20 10:00 Patrícia Silva
CeNTI *Screen-Printed Electrochromic Devices for Smart Windows*

10:20 Break & Room Check-out

Session 5: Applications for printed microstructures

T21 11:00 Abdallah Herbawi
TU Dresden *Inkjet-Printed, 2D Materials-based Gas Sensors*

T22 11:20 Sebastjan
Glinšek
LIST *Transparent printed antenna for low-energy communication*

T23 11:40 Dejan Miletic
Precitec
Optronik *2D and 3D sensors for Microprinting and Microelectronics*

12:00 Closing statement

12:20

Lunch Break

Poster session

Poster	Author	Title
P1	Meng Zhang	<i>3D Printed Microrobot for Biomedical Applicati</i>
P2	Prashantkumar Pandey	<i>Manufacturing of Hybrid Ceramic Components</i>
P3	Isabella Múnera Gärtner	<i>Explore the Future of Printing: Unleashing In Bioprinters</i>
P4	Abdallh Herbawi	<i>Inkjet-Printed, 2D Materials-based Gas Sensors</i>
P5	Christoph Folgner	<i>Inkjet printing of functional materials activated</i>
P6	Hannes Lauer	<i>BioGrip: Fin Ray gripper with integrated sensor functional printing</i>

☒ The abstract of my talk / poster is attached.

☒ The abstract had been sent to office.nano@tu-dresden.de and is already online.

21.03.2024

date

(signature)