

49th Conference of iarigai | 54th Conference of IC

International Research Conference of iarigai & International Circle

18-20th September 2023 Wuppertal, Germany

PRELIMINARY PROGRAM (subject to minor changes)

Monday, 18th September 2023 | University of Wuppertal

08:30 - 9:00	Registration	
	OPENING SESSION Chair: Prof. Dr.-Ing. Gunter Hübner Auditorium FZH 3	
09:00 - 09:15	Opening address of the conference: Prof. Dr.-Ing. Ulrich Jung	
09:15 - 09:30	Welcome address University of Wuppertal: Prof. Dr.-Ing. Anton Kummert	
	SESSION 1 (Plenary) – Keynotes iarigai Chair: Prof. Dr.-Ing. Ulrich Jung Auditorium FZH 3	
09:30 - 10:00	will be announced soon	
10:00 - 10:30	will be announced soon	
10:30 - 10:50	Official Photo Foyer Building FZH	
11:00 - 11:30 Coffee break Foyer Building FZH		
	SESSION 2A iarigai Print Technologies & Systems I Chair: Prof. Dr.-Ing. Ulrich Jung Auditorium FZH 3	SESSION 3A iarigai Applications I Chair: Prof. Dr.-Ing. Edgar Dörsam Auditorium FZH 2
11:30 - 12:00	A static compression study on the lateral pressure variations of flexo post-print on corrugated board Li Yang	Optimization of Printable Electrolyte Gunter Hübner, Marvin David Graner and Aakash Grewal
12:00 - 12:30	Control of ink-water balance in offset lithography by machine learning Eric Holle, Felix Knödl, Martin Mayer, Tizian Schneider, Dieter Spiehl, Andreas Blaeser, Edgar Dörsam and Andreas Schütze	Printing biocathodes: Construction and Characterization of an Air Breathing Platform Elise Bessac, Sébastien Solan, Bilal Demir, Nadège Reverdy-Bruas and Anne Blayo
12:30 - 13:30 Lunch Foyer Building FZH		
	SESSION 3A iarigai Print material Science Chair: Dr. Cathy Ridgway Auditorium FZH 2	SESSION 3B iarigai Applications II Chair: Prof. Fritz Bircher Auditorium FZH 2
13:30 - 14:00	Influence of atmospheric plasma polymerization on the printability of polycarbonate and poly (methyl methacrylate) Mansi Puro, Dhia Ben Salem and Michael Dattner	Organic solar cells with an inkjet printed P3HT:O-IDTBR layer based on a green solvent by utilizing a heatable printhead Niklas Guhr and Holger Göbel
14:00 - 14:30	The Thermochromism of Organic Pigments Dispersed in Liquid Phase Tim Stiene	Cyanotype – from hand craft to industrial print Thorsten Euler, Jakob Feldmann, Dieter Spiehl, Edgar Dörsam and Andreas Blaeser
14:30 - 15:00	The Fate of Synthetic Polymers - An Analysis on the Future of Plastic Waste Volker Jansen	Development of a guideline for the engineering of a coherent, optimized packaging system based on the holistic systemic analysis Veronika Schenk, Michael Herrenbauer, Christoph Haerberle and Maria Erxleben
15:00 - 15:30 Coffee break Foyer Building FZH		
	SESSION 4A iarigai Print Technologies & Systems II Chair: Dr. Branka Lozo Auditorium FZH 3	SESSION 4B iarigai Print Technologies & Systems III Chair: Prof. Dr. Nona Woolbright Auditorium FZH 2
15:30 - 16:00	Ink Spreading in Gravure Printing Armin Weichmann, Thomas Sprinzing and Matthias Galus	The Future is Now: Opportunities and Challenges of Integrated Technology in Graphic Communications for Industry 5.0: A Systematic Mapping of the Literature Lucille Trepanier, Areej Syeda and Reem El Asaleh
16:00 - 16:30	Investigation on an alternative printing plate for offset lithography Felix Knödl, Hans Martin Sauer, Jakob Feldmann, Dieter Spiehl, Andreas Blaeser and Edgar Dörsam	TaxoCatalog: costless workflow integration of an expert system environment to personalize product catalogs in omni-channel context Heiko Angermann
16:45 - 18:15	iarigai General Assembly (representatives only) Auditorium FZH 3	
19:15 - 21:00 iarigai & IC Evening Reception Venue: will be announced soon Get together with a snacks and a glass of wine		

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Tuesday, 19th September 2023 | University of Wuppertal

08:30 - 9:00	Registration	
	OPENING SESSION Chair: Prof. Fritz Bircher Auditorium FZH 3	
09:00 - 09:15	Opening address of the IC conference: Prof. Dr. Anastasios E. Politis	
09:15 - 09:30	Welcome address University of Wuppertal: Prof. Dr.-Ing. Ulrich Jung	
	SESSION 1 (Plenary) – Keynotes IC Chair: Prof. Dr. Anastasios E. Politis Auditorium FZH 3	
09:30 - 10:00	Prof. Dr. rer. oec. Drs. h.c. Hartmann Liebetruh	
10:00 - 10:30	will be announced soon	
	10:30 – 11:00 Coffee break Foyer Building FZH	
	SESSION 6A IC Education Chair: Prof. Dr.-Ing. Gunter Hübner Auditorium FZH 3	SESSION 5B iarigai Print Technologies & Systems IV Chair: Dr habil Erzsébet Novotny Auditorium FZH 3
11:00 - 11:30	Interaction Design for Print Media – Teaching print media workflows by emphasizing the great diversity of print media products Heiko Angermann	Robust method for printed pattern classification and creation of fluid splitting regime maps for gravure printing Pauline Brumm and Edgar Dörsam
11:30 - 12:00	Analysis of the current state of the distance education in Ukraine Bohdan Durnak, Jaroslav Uhryn and Orest Khamula	Influences of mesh and surface types on the quality and adhesion of screen printed elements Sandra Rosalen and Ulrich Jung
12:00 - 12:30	The Future of Printing Technology Engineers Education Enn Kerner	Numerical investigation of the lateral movement of doctor blades in gravure printing Christian Sauder, Tobias Steger, Alina Sersch and Peter Gust
	12:30 – 13:30 Lunch Foyer Building FZH	
	SESSION 5A IC Graphic Communication I Chair: Dr. Tomas Syrový Auditorium FZH 3	SESSION 6B IC Print Technologies & Systems V Chair: Gorazd Golob Auditorium FZH 2
13:30 - 14:00	Color Guides: From early times to today digital world Christos Koutrouditsos, Antonios Tsigonias and Anastasios Politis	Properties of the ink-coating with added SiO ₂ nanoparticles printed on aluminium substrates Stamatina Theohari, Sanja Mahović Poljaček and Tamara Tomašegović
14:00 - 14:30	Design Thinking in the Graphic Communication Classroom Charles T. Weiss	Empowering Next-Gen Printmakers: Undergraduates' Experiences with Innovative Computer-To-Screen Applications in Screen Printing Carl Nelson Blue
	14:30 – 15:00 Coffee break Foyer Building FZH	
	SESSION 7A IC Graphic Communication II Chair: Markéta Držková Auditorium FZH 3	SESSION 7B IC Print Technologies & Systems VI Chair: Li Yang Auditorium FZH 2
15:00 - 15:30	Making but with Creativity Jiong Liang and Zhicheng Zhang	Artificial intelligence in graphic design Ivana Tomic, Ivana Jurič, Sandra Dedijer and Savka Adamović
15:30 - 16:00	Swearing, Fighting, Three Letters and a Space: Joseph Moxon and Printing House Chappel Rules Kenneth Macro	Creating Block Printing Plates Using a Laser Charles T. Weiss
16:00 – 16:30	The EKFIPLUS project Inventory Results on Learning Material Development in the Creative and Cultural Industries Gerasimos Vonitsanos, Evangelos Syrigos, Marios Tsigonias, Pinelopi Nikitopoulou and Georgios Gamprellis	
	CLOSING SESSION Chair: Prof. Dr.-Ing. Gunter Hübner and Prof. Fritz Bircher Auditorium FZH 3	
16:30 - 16:45	Wrap up and presentation of next conference venue	
16:45	End of conference	
17:00 - 17:45	IC General Assembly (representatives only) Auditorium FZH 3	
	19:15 – 22:30 iarigai & IC Gala Dinner Venue: will be announced soon	

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Open day for all interested, regardless of the type of enrolment, but it is necessary to register in advance for organizational reasons.

Wednesday, 20th September 2023 - Networking Day

At University of Wuppertal
Rainer-Gruenter-Straße 21, 42119 Wuppertal

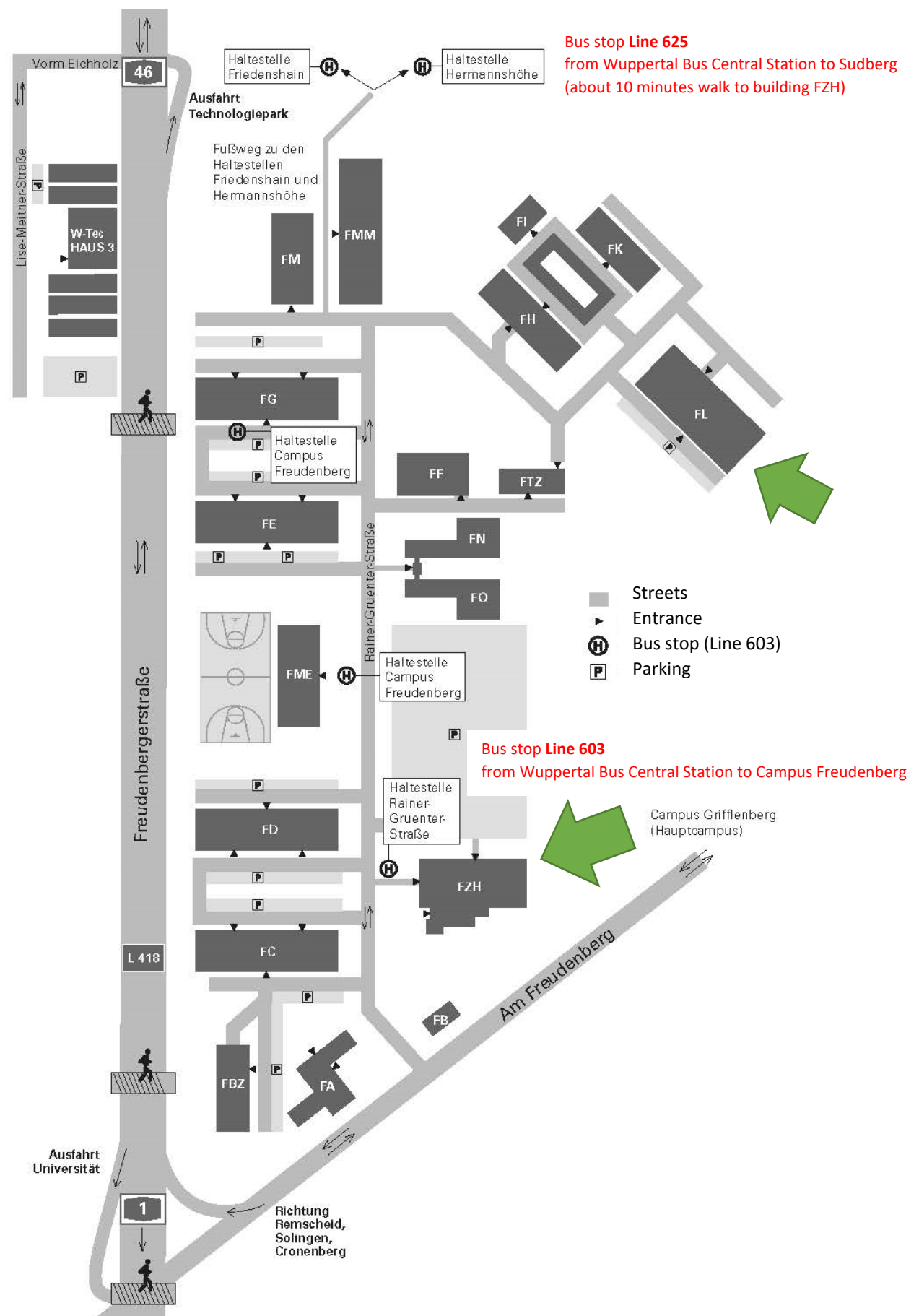
09:30 - 09:45	Official opening
09:45 - 10:30	<p>Keynote presentations</p> <p>The new way to get your talents: How to improve cooperation between industry and academia Dr.-Ing. Daniel Bohn <i>Third-party funding and research cooperation in Print and Media Technology at University of Wuppertal</i></p> <p>Wearable electronics for medical applications Philipp Hoelzl <i>Technical Sales Manager Printed Electronics at ELANTAS</i></p>
10:45 - 12:00	<p>Printing labs guided tours</p> <ul style="list-style-type: none"> • Live presentation: Spectral measurements for deeper insight into print products Tim Stiene <i>Understand what kind of information can we get from our sample based on spectral measurements and how can we use this information profitably in industrial processes</i> • Live presentation: Virtual and augmented reality for the print industry Nils Mack <i>Witness how new immersive technologies enable innovative and captivating visualisations</i> • Live presentation: Artificial Intelligence for fashion Boqi Wu <i>Understand how AI technologies can revolutionise design, production and retail processes, leading to enhanced efficiency</i>
09:45 - 12:00	<p>Tabletops</p> <p>Exhibition with leading print suppliers</p>
12:00	Bus Transfer
<p>At SPS TechnoScreen Kohlenstraße 63, 42389 Wuppertal</p>	
12:30 – 14:00	Lunch for all attendees
14:00 – 17:30	<p>Machine park live demonstrations</p> <ul style="list-style-type: none"> • Printed electronics: Demo printing on Atma MF66 camera registration machine with accuracy < 20 µm • R2R screen printing: Demo printing on Atma R2R machine • Combination of digital and screen: Demo printing on the new generation ASTRON QX model servo drive cylinder machine <p>Exhibition with leading print suppliers will be also be set at SPS for the event's duration.</p>
17:30 – 19:30	<p>Evening reception for all attendees ESMA Ambassador Award ceremony</p> <p><i>Get together with finger food and drinks</i></p>
19:30	Closing

Networking day is offered in cooperation with



Directions - Bergische Universität Wuppertal Campus Freudenberg

Rainer-Gruenter-Straße 21, 42119 Wuppertal



Freeway network (outline)

