

## 49th Conference of iarigai | 54th Conference of IC

International Research Conference of iarigai & International Circle

**18-20th September 2023 Wuppertal, Germany**

### PROGRAM

#### Monday, 18th September 2023 | University of Wuppertal

08:30 - 09:00	Registration	
09:00 - 09:05	<b>OPENING SESSION</b> Chair: Gunter Hübner   Auditorium FZH 1	
09:05 - 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	
	<b>SESSION 1 (Plenary) – Keynotes iarigai</b> Chair: Ulrich Jung   Auditorium FZH 1	
09:30 - 10:00	Practical challenges of color in print Erik Koldenhof - Technical director at Colorware	
10:00 - 10:30	DoD jetting of viscoelastic inks, the print head as a elongational rheometer Prof. Dr. Ir. Frits Dijkstra – em. Professor of Fluid Dynamics, University of Twente, The Netherlands	
10:30 – 10:50	Official Photo   Foyer Building FZH	
11:00 - 11:30	Coffee break   Foyer Building FZH	
	<b>SESSION 2A   iarigai</b> <b>Print Technologies &amp; Systems I</b> Chair: Ulrich Jung   Auditorium FZH 3	<b>SESSION 2B   iarigai</b> <b>Applications I</b> Chair: 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 <a href="#">Li Yang</a> , Hans Christiansson, Anni Hagberg and Cecilia Rydefalk	Optimization of Printable Electrolyte <a href="#">Gunter Hübner</a> , Marvin David Graner and Aakash Grewal
12:00 - 12:30	Control of ink-water balance in offset lithography by machine learning <a href="#">Eric Holle</a> , 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 <a href="#">Elise Bessac</a> , Sébastien Solan, Bilal Demir, Nadège Reverdy-Bruas and Anne Blayo
12:30 - 13:30	Lunch   Foyer Building FZH	
	<b>SESSION 3A   iarigai</b> <b>Print material Science</b> Chair: Cathy Ridgway   Auditorium FZH 3	<b>SESSION 3B   iarigai</b> <b>Applications II</b> Chair: Fritz Bircher   Auditorium FZH 2
13:30 - 14:00	Influence of atmospheric plasma polymerization on the printability of polycarbonate and poly (methyl methacrylate) <a href="#">Mansi Puro</a> , 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 <a href="#">Niklas Guhr</a> and Holger Göbel
14:00 - 14:30	The Thermochromism of Organic Pigments Dispersed in Liquid Phase <a href="#">Tim Stiene</a>	Cyanotype – from hand craft to industrial print <a href="#">Thorsten Euler</a> , 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 <a href="#">Volker Jansen</a>	Development of a guideline for the engineering of a coherent, optimized packaging system based on the holistic systemic analysis <a href="#">Veronika Schenk</a> , Michael Herrenbauer, Christoph Haeberle and Maria Erleben
15:00 - 15:30	Coffee break   Foyer Building FZH	
	<b>SESSION 4A   iarigai</b> <b>Print Technologies &amp; Systems II</b> Chair: Branka Lozo   Auditorium FZH 3	<b>SESSION 4B   iarigai</b> <b>Print Technologies &amp; Systems III</b> Chair: Nona Woolbright   Auditorium FZH 2
15:30 - 16:00	Ink Spreading in Gravure Printing <a href="#">Armin Weichmann</a> , 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 <a href="#">Lucille Trepanier</a> , Areej Syeda and Reem El Asaleh
16:00 - 16:30	Investigation on an alternative printing plate for offset lithography <a href="#">Felix Knödl</a> , 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 <a href="#">Heiko Angermann</a>
16:45 - 18:15	iarigai General Assembly (representatives only)   Auditorium FZH 1	
19:15 - 21:00	iarigai & IC Evening Reception Vienna House Easy by Wyndham Wuppertal - Auf dem Johannisberg 1, 42103 Wuppertal Get together with a snacks and a glass of wine	

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#### Tuesday, 19th September 2023 | University of Wuppertal

08:30 - 09:00	Registration	
09:00 - 09:05	<b>OPENING SESSION</b> Chair: Fritz Bircher   Auditorium FZH 1	
09:05 - 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	
	<b>SESSION 2 (Plenary) – Keynotes IC</b> Chair: Anastasios E. Politis   Auditorium FZH 1	
09:30 - 10:00	Print Business in the Digital Age - Challenges and Opportunities Prof. Dr. rer. oec. Drs. h.c. Hartmann Liebetruh - em. Prof. at University of Wuppertal	
10:00 - 10:30	Exploring the market and regulatory challenges of the European graphic industry Laetitia Reynaud - Senior Policy & Economic Advisor at Intergraf	
10:30 – 11:00	Coffee break   Foyer Building FZH	
	<b>SESSION 5A   IC Graphic Communication I</b> Chair: Gunter Hübner   Auditorium FZH 3	<b>SESSION 5B   iarigai Print Technologies &amp; Systems IV</b> Chair: Erzsébet Novotny   Auditorium FZH 2
11:00 - 11:30	Color Guides: From early times to today digital world Christos Koutrouditsos, Antonios Tsigonias and <a href="#">Anastasios Politis</a>	Robust method for printed pattern classification and creation of fluid splitting regime maps for gravure printing <a href="#">Pauline Rothmann-Brumm</a> and Edgar Dörsam
11:30 - 12:00	Design Thinking in the Graphic Communication Classroom <a href="#">Charles T. Weiss</a>	Influences of mesh and surface types on the quality and adhesion of screen printed elements <a href="#">Sandra Rosalen</a> and Ulrich Jung
12:00 - 12:30	The EKFIPLUS project Inventory Results on Learning Material Development in the Creative and Cultural Industries <a href="#">Gerasimos Vonitsanos</a> , Evangelos Syrigos, Marios Tsigonias, Pinelopi Nikitopoulou and Georgios Gamprellis	Numerical investigation of the lateral movement of doctor blades in gravure printing <a href="#">Christian Sauder</a> , Tobias Steger, Alina Sersch and Peter Gust
12:30 – 13:30	Lunch   Foyer Building FZH	
	<b>SESSION 6A   IC Education</b> Chair: Gorazd Golob   Auditorium FZH 3	<b>SESSION 6B   iarigai and IC Print Technologies &amp; Systems V</b> Chair: Li Yang   Auditorium FZH 2
13:30 - 14:00	Analysis of the current state of the distance education in Ukraine Bohdan Durnak, Jaroslav Uhryn and <a href="#">Orest Khamula</a>	A new Approach to Inkjet Printing of High Viscosity Inks for 3D Applications <a href="#">Stefan Güttler</a> , Jan Christoph Janhsen, Anna Kolesova, Antonia Götz and Karin Chen
14:00 - 14:30	Interaction Design for Print Media – Teaching print media workflows by emphasizing the great diversity of print media products <a href="#">Heiko Angermann</a>	Artificial intelligence in graphic design <a href="#">Ivana Tomic</a> , Ivana Jurić, Sandra Dedijer and Savka Adamović
14:30 – 15:00	The Future of Printing Technology Engineers Education <a href="#">Enn Kerner</a>	Properties of the ink-coating with added SiO <sub>2</sub> nanoparticles printed on aluminium substrates <a href="#">Stamatina Theohari</a> , Sanja Mahović Poljaček and Tamara Tomašević
15:00 – 15:30	Coffee break   Foyer Building FZH	
	<b>SESSION 7A   IC Graphic Communication II</b> Chair: Markéta Drzkova   Auditorium FZH 3	<b>SESSION 7B   IC Print Technologies &amp; Systems VI</b> Chair: Pauline Rothmann-Brumm   Auditorium FZH 2
15:30 – 16:00	Making but with Creativity <a href="#">Jiong Liang</a> and Zhicheng Zhang	Creating Block Printing Plates Using a Laser <a href="#">Charles T. Weiss</a>
16:00 – 16:30	Swearing, Fighting, Three Letters and a Space: Joseph Moxon and Printing House Chappel Rules <a href="#">Kenneth Macro</a>	Practical challenges in hybrid conventional-UV offset printing <a href="#">Daiva Sajek</a>
	<b>CLOSING SESSION</b> Chair: Gunter Hübner and 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 1	
19:15 – 22:30	iarigai & IC Gala Dinner Restaurant Scarpati - Scheffelstraße 41, 42327 Wuppertal	

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#### 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	<b>Keynote presentations</b> 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>  Wearable electronics for medical applications Philipp Hoelzl <i>Technical Sales Manager Printed Electronics at ELANTAS</i>
10:45 - 12:00	<b>Printing labs guided tours</b> <ul style="list-style-type: none"> <li>• Live presentation: Spectral measurements for deeper insight into print products Tim Stiene <i>Understad 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></li> <li>• Live presentation: Experimental Multimodal Publishing Frederik Schlupkothén and Michael Ruml</li> <li>• 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></li> </ul>
09:45 - 12:00	<b>Tabletops</b> Exhibition with leading print suppliers
12:00	Bus Transfer

**At SPS TechnoScreen GmbH**  
Kohlenstraße 63, 42389 Wuppertal

#### 12:30 – 14:00 Lunch for all attendees at SPS TechnoScreen

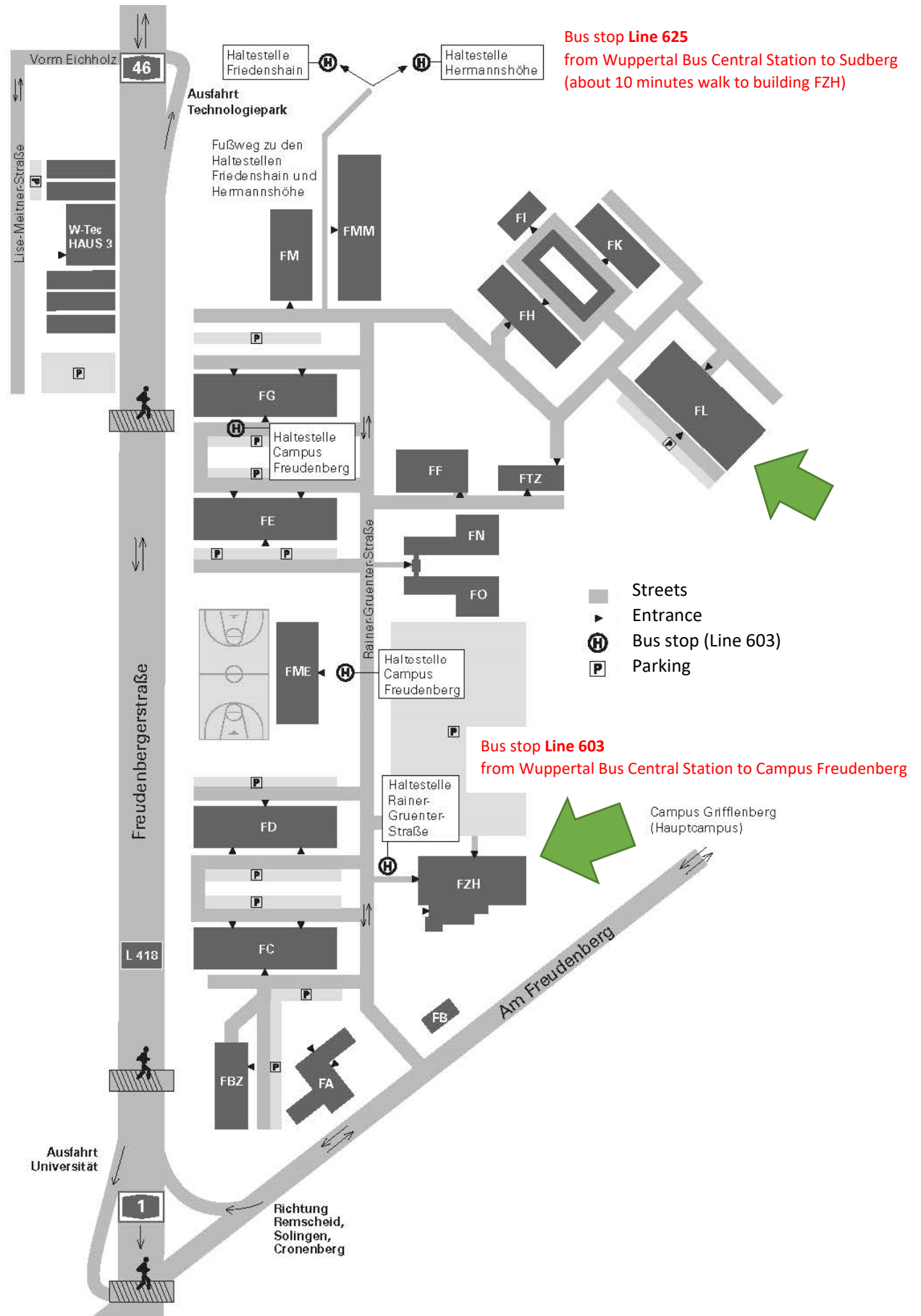
14:00 – 17:30	<b>Machine park live demonstrations</b> <ul style="list-style-type: none"> <li>• Printed electronics: Demo printing on Atma MF66 camera registration machine with accuracy &lt; 20 µm</li> <li>• R2R screen printing: Demo printing on Atma R2R machine</li> <li>• Combination of digital and screen: Demo printing on the new generation ASTRON QX model servo drive cylinder machine</li> </ul> Exhibition with leading print suppliers <b>will be also be set at SPS for the event's duration.</b>
17:30 – 19:30	<b>Evening reception for all attendees</b> ESMA Ambassador Award ceremony  <i>Get together with finger food and drinks</i>
19:30	<b>Closing</b>

Networking day is  
offered in  
cooperation with



# Directions - Bergische Universität Wuppertal Campus Freudenberg

Rainer-Gruenter-Straße 21, 42119 Wuppertal



## Freeway network (outline)

