

Iarigai/IC 2022 Conference

Monday, Sept. 19, 2022

8:30-9:15	Registration	
	Iarigai Opening Session	
9:15-9:30	Welcome: Nona Woolbright	
9:30-10:00	Opening Address: Gunter Hübner	
	Iarigai Session 1	
10:00-10:30	Invited Speaker: Charles Weiss, Developing Global Student Exchange Programs, Clemson University	
10:30-11:00	Invited Speaker: Michelle Fox, Strategic Outreach Partnerships, Clemson University	
11:00-11:30	Coffee Break	
	Iarigai Session 2A	Iarigai Session 2B
11:30-12:00	Modeling and investigating the dynamic gloss of flexo printed UV-inks containing aluminum pigments Carl Fridolin Weber, Hans Martin Sauer and Edgar Dörsam Technical University of Darmstadt, Department of Mechanical Engineering, Institute of Printing Science and Technology, Germany, Presented by Jakob Feldmann	Angular dependent reflectance spectroscopy of RGBW pigments Alina Pranovich, Abigail Trujillo Vazquez, Daniel Nyström, Sergiy Valyukh, Jeppe Revall Frisvad, Susanne Klein and Carinna Parraman Linköping University, Sweden, University of the West of England, UK, Technical University of Denmark, Denmark
12:00-12:30	Investigation of relationships between the flexographic printing plate patterning and the anilox surface and volume in case of solid white ink printing on transparent materials Csaba Horvath, Manurova Klaudia, Preklet Edina and Várza Ferenc Obuda University, Hungary, University of Sopron, Hungary	Free dispersing agent impact on latency issue for water-based inkjet inks Amélie Brogly, Gilbert Gugler, Gioele Balestra, Raphaël Wenger, Aurore Denneulin and Anne Blayo Université Grenoble Alpes, LGP2 and Tarkett R&D, France, iPrint Center, HEIA-FR, HES-SO, Switzerland
12:30-12:45	Official Group Photo iarigai	
12:45-2:00	LUNCH	
	Iarigai Session 3A	Iarigai Session 3B
2:00-2:30	Advanced print-media business models for Circular Economy domains Anastasios Politis, Georgios Gamprellis, Yannis Sofias, Christos Trochoutsos, Marios Tsigonias, University of West Attica, Greece	Effects of synchronousness in online learning experiences and the level of social presence in the pandemic 2021 Hocheol Yang, Jihyun Kim, Stephanie Kelly and Ryan Goke Cal Poly, University of Central Florida, North Carolina A&T State University, North Dakota State University
2:30-3:00	Invited Speakers: Erica Walker and Hudson Smith, Real-world evaluation of artificial intelligence-based brand color management for social media content creators, Clemson University, Clemson SC, USA	
3:00-3:30	Coffee Break	
	Iarigai Session 4A	Iarigai Session 4B
3:30-4:00	A Gate-to-Gate Life Cycle Analysis of Wide-Format Flatbed Inkjet Printing Zuha Waqar and Jonghun Park Toronto Metropolitan University, Canada	Evaluation of measurement methods for compression, re-swelling and material thickness through the embossing process of cardboard Ulrike Käppeler, Jennes Huenniger and Lutz Engisch Leipzig University of Applied Science, Germany
4:00-4:30	Revising Our Thinking on Tone Value Increase John Seymour John the Math Guy, LLC, and Clemson University, Clemson SC, USA	Optimization of PEDOT:PSS layers for hole transporting layers of organic photodetectors Tomáš Syrový, František Josefík, Lucie Syrová, Ignasi Burgués Ceballos, Petr Janíček, Jhonatan Rodriguez Pereira, Lubomír Kubáč and Laura López Mir University of Pardubice, Czechia, Center for Organic Chemistry s.r.o., Czechia, Eurecat, Spain
4:30-5:00	A visualization tool for paper compression in a rolling nip Emanuele Zeni, Cecilia Rydefalk and Li Yang KTH - Royal Institute of Sweden, RISE - Research Institutes of Sweden	Creation of a comprehensive high-resolution image data set on an industrial web press to investigate hydrodynamic pattern formation in gravure printing Pauline Brumm, Thomas Sprinzing, Thorsten Euler, Matthias Galus, Armin Weichmann and Edgar Dörsam Technical University of Darmstadt, Institute of Printing Science and Technology (IDD), Darmstadt and Hochschule der Medien Stuttgart, Institut für Angewandte Forschung (IAF), Stuttgart
5:00-5:15	Coffee Break	
5:15-6:30	Iarigai General Assembly (representatives only)	
6:30-7:30	Evening: iarigai & IC Evening reception (dinner on your own)	

Tuesday, Sept. 20, 2022

9:00-9:30	Registration	
9:30-9:45	Welcome: Amanda Bridges	
9:45 -10:00	Opening Address: Anastasios Politis	
	IC Session 1	
9:30-10:00	Keynote: Kevin Howell Epsilon Pi Tau, The International Honor Society for Professions in Technology Epsilon Pi Tau: Contribution to Technological Innovation through the Recognition of Professional Technologists	
10:00-10:30	Coffee Break	
	Iarigai Session 5	IC Session 2
10:30-11:00	Comparison of the performance of DLC to chromium as wear resistance layer on a gravure cylinder for printing fine line structures Laura Cirstea, Anna Kolesova, Hammad Khan, Mohamed Abouelmagd, Swapnil Patel, Thomas Sprinzing, Matthias Galus and Armin Weichmann Hochschule der Medien Stuttgart, Germany	Future Print-Media Education Design: A Sector-Oriented Holistic Approach Anastasios E. Politis, Marios Tsigonias, Gerasimos Vonitsanos HELGRAMED, GRAPHMEDLAB, University of West Attica, Hellenic Open University, Greece Future Print-Media Education
11:00-11:30	Multivariate Sensor Dataset of an Industrial Rotogravure Printing Press (MSDIRPP) Tobias Enk and Peter Urban University of Wuppertal, Germany	The role of the education system, challenges and opportunities for the development of the graphic and digital media industry: case study of Lithuania Giedrius Gecevičius, Daiva Sajek, Virginijus Valčiukas Kaunas University of Applied Sciences, Lithuania
11:30-12:00	Development and luminance measurements of a fully screen-printed multi-segmented electroluminescent clock Thorsten Euler, Dawid Madzelan, Pauline Brumm, Edgar Dörsam and Andreas Blaeser TU Darmstadt, IDD, Germany	The use of online tools for time-flexible critique and reflection in a Graphic Communications class Erica B. Walker Clemson University, Clemson, SC, USA
12:00-12:30	Exploring Computer-To-Screen Applications for Innovating a Conventional Screen-Printing Practicum Carl Blue Department of Graphic Communications, Clemson University, USA	Catalog Production in the United States Redux John R. Craft Appalachian State University, Boone, North Carolina USA
12:30-12:45	Official Group Photo IC	
12:45-2:00	LUNCH	
	Iarigai Session 6	IC Session 3
2:00-2:30	Printable Electrolyte for Printed Batteries Gunter Huebner, Michael Krebes, Laura Cirstea and Anna Kolesova Hochschule der Medien, Germany	Strategies for Teaching Soft Skills in a Graphic Communications Classroom Amanda Bridges Clemson University, Clemson, SC, USA
2:30-3:00	Inks for Li-Ion battery anodes printed by rotogravure Jorge Vicco Mateeo, Kevin Matthew, Alexandra Pekarovicova, and Paul D. Fleming Western Michigan University, USA	Awakening the multi-disciplinary engineers’ voice in the printing and packaging industry at the global level Enn Kerner Vice President of Estonian Engineering Association and Sinapse Print Simulators, Esthonia
3:00-3:30	Coffee Break	
	Iarigai Session 7	IC Session 4
3:30-4:00	Generation of a paper embossing preview using 3D scanning and Fourier analysis Jakob Feldmann, Felix Braig, Dieter Spiehl, Edgar Dörsam and Andreas Blaeser Technical University of Darmstadt, Institute of Printing Science and Technology, Technical University of Darmstadt, Institute for BioMedical Printing Technology, Germany	Cross-linking of glucomannan-based biofilms by tartaric acid: Rheology and barrier properties of the biofilms for food packaging Kholoud Al-Ajlouni, Paul D. Fleming, Alexandra Pekarovicova Chemical and Paper Engineering, Western Michigan University, USA
4:00-4:30	Wetting and adhesion phenomena of surface-treated float glass Sarah Patejdl, Ulrich Jung and Katharina Freieck Bergische Universität Wuppertal, Germany	Investigation of rub resistance of the conventional and UV ink layers using hybrid offset printing Daiva Sajek, Giedrius Gecevičius, Gitana Ginevičienė, Virginijus Valčiukas Kaunas University of Applied Sciences, Lithuania
4:30-5:00	Invited Speaker: Fons Put, Benchmarking Digital Print Quality, Flemish Innovation Center for graphic communication, Belgium	
5:00-5:30	Closing Session iarigai	Closing Session IC
6:00-7:00	IC General Assembly (representatives only)	
8-11:00	Gala Dinner (Group event both iarigai and IC members)	

Wednesday, Sept. 21, 2022

9:00-9:30		Meet Bus
9:30-10:30		Bus to Clemson
10:30-11:00		Coffee Break
11:00-11:15		Welcome to Clemson
11:15-11:45		The Role of Virtual Reality in Education and Training Bobby Congdon, Director Sonoco Institute Nate Newsome, The Watt Family Innovation Center Research Associate, Virtual Reality
11:45-1:00		Lunch
1:00-1:45		Tour of Sonoco Institute: The Sonoco Institute at Clemson is a unique education, research, and industry collaboration to discover, develop, and deliver advanced solutions and resources for tomorrow’s printing and packaging value chain.
2:15-3:00		Tour of Godfrey Hall home of Clemson’s Graphic Communication Department
3:00		Bus returns to Greenville