



Program

Wednesday, February 28, 2018

09:50 - 10:00	Opening of the electronic displays Conference 2018		Prof. Dr. Karlheinz Blankenbach, Pforzheim University of Applied Science
Keynote-Session: Display Markets & Technologies			
10:00 - 10:25	Keynote: Displays: Does Maturity Mean Stability?		Paul Gray, IHS Technology
10:25 - 10:50	Keynote: TADF: Next-Generation OLEDs		Gildas Sorin, cynora
10:50 - 11:15	Keynote: Active Matrix Technologies for Displays and Beyond		Prof. Norbert Fruehauf, University of Stuttgart
11:15 - 11:35	Keynote: The Success Story of LED's in Electronic Displays		Sven Weber-Rabsilber, OSRAM Opto Semiconductors
11:35 - 12:00	Keynote: Curving guides for elegant mixed reality		Adrian Travis, Microsoft
12:00 - 13:15	Author Interviews (20 min.) & Lunch & Posters		
Session 1: Touch Technologies & Integration		Session 2: Display Measurements	
13:15 - 13:35	The Future of Projected Capacitive Touch Technology Markus Hell, DATA MODUL	Conformity Assessment with Examples for BlackMURA Measurements Dr. Udo Krüger, TechnoTeam Bildverarbeitung	
13:35 - 13:55	Specification of Active Haptic Feedback for Touchscreens Dr. Manuel Kuehner, Porsche	Improvement of the Visual Quality of Color LED Matrix Displays Using New Multiplexing Driving Method and Absolute Color Calibration Dr. Pierre Boher, ELDIM	
13:55 - 14:15	Next Standard of Optical Bonding (LOCA) – Hybrid SVR with Slit-coater Donald Schaffer, Dexerials Europe	Standard System Specifications for Repeatable Sparkle Measurement in AG Displays Matthew Scholz, Radiant Vision Systems	
14:15 - 14:35	Metal Mesh vs ITO in Projected-capacitive Touch Screens; Performance Comparison Through Measurements and Simulations Christos Daskalou, Fieldscale; Mathias Gruber, PolyJC	Color Gamut Compression for Multiple Production Color Gamuts Dr. Jurgen Stauder, Technicolor	
14:35 - 14:55	Just TOUCH! Dr. Hagen Ploog, admatec	Flicker from Electronic Displays and Light Sources Dr. Michael Becker, Instrument Systems	
14:55 - 15:35	Author Interviews (20 min.) & Coffee & Posters		
Posters	Requests to lenses in measuring systems evaluating Near-Eye Displays Dr. Norbert Schuster, SUSTAR-OPTICS	Videoplayer-Implementation on Raspberry Pi with application example Artista-IO/ Videoposter IV Matthias Keller, Distec	
	Development of a Multi-Primary QD Display Model for Gonio-Apparent Colors Dr. Khalil Huraibat, University of Alicante	CMOS based microdisplays, imagers and sensors enhanced by OLED/OPD integration Bernd Richter, Fraunhofer FEP	
	Putting a face on the cloud – Understanding IoT GUI requirements Phil Brumby Mentor, A Siemens Business	Enhanced usability – multifunctional ID cards with sensors and LED displays Jörg Fischer, Bundesdruckerei	
	Fingerprint Biometrics in Automotive Sunil Thomas, Synaptics	4k Displays in Cars – APIX 3 the Enabling Connectivity Technology Thomas Rothhaupt, Inova Semiconductors	
Session 3: Automotive Display Optimizations		Session 4: Special Applications & Flexible Displays	
15:35 - 15:55	The Technologies and Market Trend for 'CID Plastic cover lens' and DNP's Functional Transfer Foil Development Takeshi Kihara, Dai Nippon Printing	Progressive Super View Technology Enables Daylight Readable Displays for Enhanced User Experience Tobias Schoene, Sharp Devices Europe	
15:55 - 16:15	In Cell Touch Technology Development for Automotive Applications Wenjun Dai, Tianma Micro-electronics	Healthcare Trends and Display Innovations Luc Yao, Merck	
16:15 - 16:35	Crash Safe Display Applications for Automotive Jens Rasmussen, e.solutions	Smart Paper. How Printed Low Cost Display Interfaces on Packaging will Disrupt the Whole Consumer Goods Industry Marcin Ratajczak, INURU	
16:35 - 16:55	Advanced Antireflection Coatings for Display Covers Dr. Peter Munzert, Fraunhofer Institute Jena	Thin, Flexible, Lightweight – New Electronic Form Factors Enable New Applications Wolfgang Mildner, MSWtech	
16:55 - 17:15	Author Interviews (20 min.) & Posters		

Thursday, March 1, 2018

Session 5: Automotive Displays & Functional Safety		Session 6: AR/VR	
09:00 - 09:20	Functional Safety for Automotive Displays Szukang Hsien, Maxim Integrated	Head-mounted VR Displays for Application Development in Automotive Industry Dr. Rainer Erbach, Robert Bosch	
09:20 - 09:40	Safety Considerations For Designing Electronics In Automotive Applications: An Example With VESA Display Stream Compression Alain Legault, Hardent	Autostereoscopic 3D as a Stepping Stone Towards Simulated Reality Dr. Erik van der Tol, Dimenco	
09:40 - 10:00	Image Analysis to Support Functional Safety for Automotive Displays Manfred Wittmeir, Epson Europe Electronics	Industrial Augmented Data Glasses Prof. Rigo Herold, Westsächsische Hochschule Zwickau	
10:00 - 10:40	Author Interviews (20 min.) & Coffee & Poster		
Session 7: Automotive Displays		Session 8: Display Applications	
10:40 - 11:00	MLD: Automotive 3D and Beyond – a Safe and Intelligent User Experience Darryl Singh, Rudolf Hemmert, Delphi	Electronic Displays TroubleShooting Klaus Wammes, Wammes & Partner	
11:00 - 11:20	Environmental Considerations for Augmented Reality Head-up Display Systems Sam Martin, Texas Instruments; Junji Watanabe, Kuraray	New Innovative LED Wallpaper Solution Lutz Nehrhoff von Holderberg, LightnTec	
11:20 - 11:40	Integration of Transparent and Non-transparent Active Matrix Displays Between Glas Panels Werner Malcherek, ANNAX	How to Easily Incorporate a Colour Display and Touch Interface Into an Existing Design Markku Riihonen, 4D Systems	
11:40 - 13:00	Author Interviews (20 min.) & Lunch & Posters		
Keynote-Session: OLEDs			
13:00 - 13:25	Keynote: OLED Market, Technology and Manufacturing		Robert O'Brien, Display Supply Chain Consultants
13:25 - 13:50	Keynote: Printing OLED Displays		Edgar Boehm, Juergen Laur, Merck
Session 9: E-Paper Displays		Session 10: Display Interfaces	
13:55 - 14:15	Electronic Ink Displays: Technology and Markets Alexander Pruss, Holitech Europe	Virtual AUX channel Ensures Stable DisplayPort Operation Rudolf Sosnowsky, HY-LINE Computer Components	
14:15 - 14:35	E-Paper Displays Maturing from Niche to Mainstream IoT Display Technology HD Lee, Pervasive Displays	High Bandwidth Demands for In-Vehicle Display Connectivity Daniel Adler, Valens	
14:35 - 14:55	Smart Packaging with E-Paper Display for Improved Patient Compliance Peter Duchemin, MSC Technologies	High Resolution Display Interfaces Leveraging Cost Optimized FPGAs Ted Marena, Microsemi Corporation	
14:55 - 15:15	Author Interviews (20 min.) & Coffee & Posters		
Session 11: New Display Technologies			
15:15 - 15:35	Industrialization of Fully Plastic OLCD		Dr. Vincent Barlier, FlexEnable
15:35 - 15:55	Concept for Full Color QD-LED Displays		Dr. Armin Wedel, Fraunhofer IAP
15:55 - 16:15	Performance of Electro-wetting Displays in Out of Home Applications		Dr. Doeke Oostra, Etulipa
16:15 - 16:45	Wrap-Up, Summary & Author Interviews (20 min.)		



electronic displays Conference

February 28 – March 01, 2018 | Nuremberg, Germany

Europe's largest Conference on Electronic Displays and their Applications

Conference Committee:

- Prof. Dr. Karlheinz Blankenbach (Chairman), Pforzheim University of Applied Science
- Armin Scheuerer, Data Modul
- Valeriano Ferreras Paz, Robert Bosch
- Dr. Jürgen Wahl
- Jürgen Laur, Merck
- Winfried Schwedler, Osram Opto Semiconductor

- **Who should attend?** Everybody professionally involved in displays from engineers to managers
- **What will you learn?** Latest information on electronic display technologies, software, systems and performance optimization
- **Who will you meet?** Colleagues and leading experts from both industry and R&D
- **Why should you attend?** Stay ahead in displays and applications, get a second opinion for your ideas
- Special focus on automotive displays, new display technologies and optimizations for various display applications
- Sessions on touch screens, display measurement, display interfaces, e-paper and AR/VR
- Top level keynotes on display trends, future displays, OLEDs and LEDs

Organized by:



Conference Sponsors (as at 21.11.2017)



Please send fax-registration to

+ 49 (0) 89 – 255 56 0155

I want to register for:*

- Full Conference (28.2.-1.3.2018)
- First Conference Day (February 28, 2018)
- Second Conference Day (March 1, 2018)

Day 1 – February 28, 2018

- Session 1: Touch Technologies & Integration
- Session 2: Display Measurements
- Session 3: Automotive Display Optimizations
- Session 4: Special Applications & Flexible Displays

- My company is exhibiting
- I am a Co-Speaker (with _____)
- I am a Member of DFF

Day 2 – March 1, 2018

- Session 5: Automotive Displays & Functional Safety
- Session 6: AR/VR
- Session 7: Automotive Displays
- Session 8: Display Applications
- Session 9: E-Papers Displays
- Session 10: Displays Interfaces
- Session 11: New Displays Technologies

Please note: In order to be registered you have to fill in all required fields marked with an asterisk *. (A confirmation email will be sent to you)

Last Name*	First Name*	Mr./Ms./Title*
Jobtitle	Company*	Student (yes/no)
Street*	Department	
Zip code*	City*	Country*
Phone*	Email*	
Date*	Signature*	

Terms and Conditions:

1. The attendance fee includes proceedings, free admission to the embedded world Exhibition 2018, lunch and refreshments. You will receive a confirmation of your registration along with your invoice.
2. Cancellation received in writing before or on February 06, 2018 will be subject to a service charge of EUR 50 for one-day registrations and EUR 100 for two-day registrations. For all cancellations received after February 07, 2018 the full conference fee remains payable. Substitutions within the same company are welcome at any time.
3. The organizers reserve the right to make changes in the program and/or speakers or to cancel sessions if conditions beyond its control prevail. Please check www.electronic-displays.de for the latest conference information.
4. Students Conference fee: EUR 49 (incl. proceedings and exhibition ticket, excl. lunch voucher), student ID required. Please email to JHeger@weka-fachmedien.de.
5. Exhibitors or Co-Speakers will receive a discount of 50% for one person only. Members of DFF receive a discount of 30%.
6. On-site-registration: Please register in advance. For on-site registrations a surcharge of EUR 50 per attendee will apply.
7. All prices excluded VAT

Venue: NürnbergMesse, Messezentrum, NCC Ost, 90471 Nuremberg, Germany

electronic displays Conference 2018

Conference Fees	by Jan 17	from Jan 18
Full Conference (28.2.-1.3.2018)	580,00 €	630,00 €
First Conference Day (February 28, 2018)	370,00 €	400,00 €
Second Conference Day (March 1, 2018)	370,00 €	400,00 €
Students (28.2.-1.3.2018) (excl. lunch)	49,00 €	49,00 €

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**Online Registration at
www.electronic-displays.de**