



Program

Wednesday, 24 February 2016

09:50 - 10:00	Opening of the electronic displays Conference 2016 Prof. Dr. Karlheinz Blankenbach, Pforzheim University of Applied Science	
Keynote-Session: Markets, Applications & Trends		
10:00 - 10:25	Keynote: Touch Panel, Touchless Sensor and Emerging Display – Market Forecast and New Opportunities	Dr. Jennifer Colegrove, Touch Display Research
10:25 - 10:50	Keynote: Evolution of Automotive Displays and HMI: Past, Present and Future	Prof. Dr. Peter Knoll, KIT Karlsruhe Institute of Technology
10:50 - 11:15	Keynote: Automotive display trends and the increasing engagement of China	John Brown, Tianma NLT
11:15 - 11:40	Keynote: Wearable Computers – The next Generation of Interaction	Prof. Dr. Gerrit Meixner, Heilbronn University
11:40 - 12:05	Keynote: Trends for Next Generation Displays – 2016 and Beyond	Sweta Dash, Dash-Insights
12:05 - 13:20	Author Interviews, 30th Anniversary edC & Lunch (15 min + 60 min)	
Session 1: Automotive Displays		Session 2: Displays QA & Improvements
13:20 - 13:40	Quality aspects of displays for automotive applications Robert Haidenthaler, Daimler	Longterm availability and obsolescence management for Displays Klaus Wammes, Wammes & Partner / i-sft
13:40 - 14:00	Safety mechanisms to control automotive displays Manfred Wittmeier, Epson Europe Electronics	Legal Compliance of Displays: Update about recent amendments of the RoHS Directive Dr. Stefan Mollin, Dr. Matthias Bischof, Merck
14:00 - 14:20	Optical design and evaluation of autostereoscopic Head-Up Displays Tobias Werner, Robert Bosch	UB-FFS technology: latest advances in high transmittance LCD technologies for small and medium size displays Dr. Markus Czanta, Merck
14:20 - 14:40	The 3D Instrument Cluster – Frivolous Eye Candy or HMI Breakthrough? Stephan Häfele, Altia	Fireload and smoke gas optimized displays Werner Schubert, Distec
14:40 - 15:00	Automotive capacitive touch technologies, Smart mirrors for cars Dr. Chun-Ming Huang, TRULY (Huizhou) Smart Display	Correction of misalignments between optical grid and pixel panel on autostereoscopic displays at future increasing display resolution Silvio Jurk, Fraunhofer Heinrich Hertz Institute
15:00 - 15:40	Author Interviews, Poster Session, 30th Anniversary edC & Coffee (40 min)	
Posters:	Optical Bonded Displays, Improving Mechanical Stability and Future Design Requirements	Dr. Klaus Radermacher, Via optronics
	Projected capacitive touch integration	Frank Ploenissen, MSC Technologies
	Any Media over Any Network	Aaron Beham, Xilinx
	Transparent displays for the rail applications	Werner Malcherek, ANNAX information systems
	Moiré Effect and Its Minimization in 3D Displays	Dr. Vladimir Saveljev, Hanyang University
	Innovation in Workflow and Software Tools for Iterative and Collaborative HMI Design	Thomas Fletcher, Crank Software
	A low-latency yet highly reliable wireless video transfer system	Tobias Welti, ZHAW Zurich University of Applied Sciences
	Enhanced GUI and HMI Design possibilities using force sense and haptics	Michael Nussbaumer, next system
Session 3: Improvements in Color Performance		Session 4: Microdisplays
15:40 - 16:00	Achieving BT. 2020 color gamut – Quantum Dots vs. Lasers Dr. John Ho, QD Vision	2k Electronic View Finder based on QXGA Microdisplay Dr. Henning Molsen, Forth Dimension Displays
16:00 - 16:20	Stable Color Gamut for High-End Professional Displays Stefan Carton, NDF – Special Light Products	Low power low cost LCD based head-mounted display Jean-Michel Asfour, DIOPTIC
16:20 - 16:40	Finding meaningful numbers to describe viewing cone characteristics – Development of ISO 12646 Peter Karp, Konica Minolta Sensing	Adaptive interactive data-glasses Prof. Dr. Rigo Herold, University of Applied Sciences Zwickau
16:40 - 17:00	Challenges for LEDs in Outdoor environments Sven Weber-Rabsilber, OSRAM Opto Semiconductors	Laser beam scanning (pico-)projection display based on resonant micromirrors Christian Mallas, Fraunhofer ISIT
17:00 - 17:20	Author Interviews & 30th Anniversary edC	

Thursday, 25 February 2016

Session 5: Haptic Touch		Session 6: Measurement Devices
09:00 - 09:20	HAPTIVITY – Virtual reality for mechanical button feeling Dr. Matthias Neundorf, Kyocera Display Europe	A high-speed 2-in-1 Imaging Colorimeter for Display Production Applications Dr. Martin Wolf, Instrument Systems
09:20 - 09:40	Building tactile feedback into touch displays Chris Travis, Redux Labs	Conoscopic measurements for displays – advantages and limitations Dr. Udo Krüger, TechnoTeam
09:40 - 10:00	The Use of Force Sensing to Enhance Capacitive Touchscreens in Industrial and Automotive Applications Chris Ard, Touchnetix	Improved Display Color Measurements with the WP214 Imaging Spectral Colorimeter Chad Greene, Tim Moggridge, Westboro Photonics
10:00 - 10:40	Author Interviews, Poster Session, 30th Anniversary edC & Coffee (40 min)	
Session 7: Touch Enhancements		Session 8: Measurement Methods
10:40 - 11:00	Water, conductive liquids and gloves – a challenge for PCAP systems Markus Hell, Alexander Trica, DATA MODUL	Measurements and simulations of outdoor characteristics of different types of displays: application to realistic spectral ray tracing simulation of displays Dr. Pierre Boher, ELDIM
11:00 - 11:20	Antibacterial active glass Pascal Meier, Glas Trösch	Reflection characteristic measurements of displays made easy by luminance imager and gloss meter Christian Dietz, Konica Minolta Sensing Europe
11:20 - 11:40	Chemically tempering of Sol-Gel coated anti-reflective glasses for display applications Dr. Marten Walther, SCHOTT	Optical Characterization of Anti-Glare Layers Dr. Michael Becker, Display-Messtechnik & Systeme; Dr. Thomas Fink, Porsche; Dr. Udo Krüger, Techno Team
11:40 - 13:00	Author Interviews, Poster Session, 30th Anniversary edC & Lunch (20 min + 60 min)	
Keynote-Session: Trends & Automotive		
13:00 - 13:25	Keynote: Market Trends Bob Raikes, Meko	
13:25 - 13:50	Keynote: Automotive Display Dr. O.S. Yang, Dr. B.W. Lee, Samsung	
Session 9: Display Market & Analysis		Session 10: OLEDs & Quantum Dots
13:55 - 14:15	Display Market Overview: Chinese companies gaining control? Paul Gray, IHS Technology	Industry trends: the rise of flexible OLED and quantum dots Dr. Guillaume Chansin, IDTechEX
14:15 - 14:35	Race to the bottom Ian Hendy, Hendy Consulting	Cost-efficient manufacturing process for barrier films suitable for flexible OLED applications Jürgen Kreis, AIXTRON
14:35 - 14:55	Trend Scouting in the Display Market: new opportunities for consumer insights from big data analytics (case social media mining) Dr. Markus Czanta, Merck	Problems encountered using Phosphors and Quantum dots for Display Screens backlit by LEDs Prof. Jack Silver, Brunel University
14:55 - 15:15	Author Interviews & Coffee (20 min)	
Session 11: Free-Form & Flexible Displays		Session 12: Display Interfaces & Optimization
15:15 - 15:35	Free-Form Displays: a Revolutionary Class of LCDs for New Applications Dr. Graham Cairns, Sharp Devices Europe	DSI or eDP or...? Video Interfaces for Next Generation Automotive Display Jochen Schyma, Inova Semiconductors
15:35 - 15:55	Technology and Applications for flexible and robust Displays Dr. Matthias Tortschanoff, Plastic Logic	USB Type C 'Alternate Mode' enables DisplayPort graphics interface Rudolf Sosnowsky, Hy-Line Computer Components
15:55 - 16:15	Flexible and Conformable Displays Dr. Jan-Laurens van der Steen, Holst Centre/TNO	Adaptive Global Dimming Based on Image Analysis for Power Saving and Preserving Brilliance of Automotive Displays Prof. Dr. Chihao Xu, Maxim Schmidt, Saarland University
16:15 - 16:45	Wrap-Up, Summary & Author Interviews (10 min + 20 min)	

