

Bridging Technology Sharing Innovation

30/11-1/12/2020 @ Hong Kong 香港

2/12/2020 @ Shenzhen 深圳

The Electronic Circuits World Convention (ECWC) is the most notable and recognized international PCB symposium hosted by different members of the World Electronic Circuits Council (WECC) every three years. The 15th ECWC will be hosted by the Hong Kong Printed Circuit Association from 30 Nov to 2 Dec 2020, the full conference will be conducted online with Day 3 of the conference being simultaneously held at the Shenzhen Convention & Exhibition Center, China in conjunction with the "International Electronics Circuit Exhibition (Shenzhen)". The ECWC15 brings giants and experts from the PCB and electronics manufacturing industry around the world to share, explore and present solutions as well as the latest development in PCB technologies with you. Join our online conference! Enroll now!

世界電子電路大會(ECWC)為世界電子電路理事會 (WECC)每三年舉行一次的國際研討會。會議首次由 香港綫路板協會舉辦,於11月30至12月2日一連三天 以線上形式舉行(其中第三天的會議將會在中國深圳 會展中心 ,與2020國際電子電路 (深圳) 展覽會同期 進行)。ECWC15聚集世界各國學術、行業和政府的 專家學者、技術人員參與及分享,形成一個共同探討 電子電路領域最新技術和發展的互相交流平台。會議 現正進行登記,歡迎踴躍參與!

30 Nov - 1 Dec 2020

Online Webinar 線上舉行

2 Dec 2020

Hybrid Conference* 線上、線下同步舉行*

Registration Fee 會議費用

	1 DAY PASS 一天通行證	3 DAYS PASS 三天通行證	2/12/2020 LIVE Conference 實體會議
WECC Member 世界電子電路理事會會員	USD70	USD180	FREE 免費
Non-Member 非會員	USD100	USD250	FREE 免費

ENROLL NOW! 立即報名



ecwc15.org

* Live and Virtual Conference will be simultaneously held in conjunction with the "International Electronics Circuit Exhibition (Shenzhen) 2020" at Shenzhen Convention & Exhibition Center, China 實體會議於中國深圳會展中心的2020 國際電子電路 (深圳) 展覽會中同期舉行

Enquiry 查詢

香港綫路板協會 HKPCA (852) 2155 5099 | ecwc15@hkpca.org 香港生產力促進局 HKPC (852) 2788 6134 | samanthachan@hkpc.org

Organiser 主辦機構



Supporting Organisation 支持機構







hkpc



The 15th Electronic Circuits World Convention (ECWC15) Tentative Program Rundown

DAY 1, 30 NOVEMBER 2020 (MONDAY) - HONG KONG

9:00 - 9:30 am		Welcome Speeches	
9.00 - 9.50 am	//		\$\$\fr\ \]
9:30 - 10:15 am Keynote Session (K1) Brief History of PCB and Technology Trend Dr. Hayao Nakahara, President of N.T. Information Ltd.			
10:15 - 11:00 am	VeCS: Complementation of	Keynote Session (K2) HDI Technology and Through Hole Technology Holden	hnology
11:00 - 11:15 am		BREAK	
11:15 - 12:00 pm		Keynote Session (K3) PCB Design for Automotive s Tam, Robert Bosch GmbH	
12:00 - 12:30 pm	Presentation S01 Solution Physical and Chemical Properties Changes by Far Infrared Magnetic Resonance Mr Dong Liu Shenzhen Fixing Intelligentech Ltd.	Presentation S02 A novel method for accurate PCB impedance simulation of any specific stack-ups Mr Terry Ho University of Electronic Science And Technology of China	Presentation S03 Electrical and Mechanical Reliability of an RF Laminate are Key Requirements For Selection in 77/79 GHz Safety and Reliability Applications Mr Manfred Huschka AGC Multi-Materials Division
12:30 - 1:00 pm	Presentation S04 Versatile TIM Solution with Chain Network Solder Composite Mr Ning-Cheng Lee, Indium Corporation	Presentation S05 A novel super water repellency for glass and metal surfaces based on a dissipative structure control Dr Shin-ichiro Nakajima Japan Aviation Electronics Ind., Ltd.	Presentation S06 Development of organic composite materials for 5G application Ms Misato Takemura Japan Aviation Electronics Ind., Ltd.
1:00 - 2:15 pm		LUNCH BREAK	
2:15 - 2:45 pm	Presentation S07 5G PCB Technology Requirements and Challenge Mr Feng Gao Huawei Technologies Co., Ltd.	Presentation S08 A New Assembly Solution for High-Voltage Device of GaN on Si Substrate Ms Hsinjou Lin Siliconware Precision Industries	Presentation S09 Research on Key Technology of AL-base PCB for Power Battery Module Mr Changming Zhang Shenzhen Bomin Electronics Co., Ltd.
2:45 - 3:15 pm	Presentation S10 Transmission Line Loss Analysis of High Speed Signal Ms Lingzi Zhang The 52nd China Electronics Technology Group	Presentation S11 Effect of the conditioner on deposition characteristics of electroless copper plating Mr Jinfeng Liu Shennan Circuits Co., Ltd	Presentation S12 Research on Skip Via processing technology of high-speed PCB Mr Canjun Xiang Delton Technology (Guang Zhou) Inc.
3:15 - 3:45 pm	Presentation S13 The Technology Development of Cavity in High-level HDI PCB Mr Rui Sun Zhuhai Founder PCB Development Co., Ltd.	Presentation S14 Using traditional Routing machine to treat with LED PCB Mr Junlin Zhou Jiangxi Zhihao Electronic Technology Co., Ltd.	Presentation S15 Research on the difference of TDR measurement characteristic impedance of different brands and technical analysis for CPCA standard formulation Mr Yong Cao University of Electronic Science And Technology of China
3:45 - 4:15 pm	Presentation S16 How to effectivity verify the creep corrosion failure occurrence on electronics? Mr Dem Lee Integrated Service Technology Inc.	Presentation S17 A robust Palladium-free Activation Process for Electroless Copper Plating Mr Pentel Yu Atotech Taiwan Limited	Presentation S18 Local deformation preventing of large board setting in multilayer printed circuit manufacture Mr Shijin Chen Bomin Electronics Co., Ltd
4:15 - 4:30 pm		BREAK	
4:30 - 5:00 pm	Presentation S19 Research Manufacturing Technology of Through-hole and Blind Hole in PTFE-doping Heterogeneous PCB Dr Guoyun Zhou University of Electronic Science and Technology of China	Presentation S20 An overview of key technologies on manufacturing high-order HDI printed circuit board Mr Shijin Chen Bomin Electronics Co., Ltd	Presentation S21 New Black Oxide Chemicals for pretreatment of Copper Direct Laser Drilling Mr Tadayuki Nakamura Meltex Inc.
5:00 - 5:30 pm	Advanced adhesion enhancement system for high frequency PCB manufacturing Dr Thomas Thomas Atotech Deutschland GmbH	Presentation S23 Development of automotive BMS acquisition harness and application of polyethylene naphthalene diformate materials Mr Mingming Zhang AKM Industrial Company Limited	Presentation S24 Development of a pressure sensing module Mr Hao Yong Guo AKM Industrial Company Limited
5:30 - 6:00 pm	Presentation S25 The Higher Etch Factor Conductor Traces Fabricated with Etching Additive Chemicals Dr Chul Lee Hwabaek Engineering Co., Ltd.	Presentation S26 The effect of final surface finish on signal integrity for 5G high-speed printed circuit board Ms Yali Gao Zhuhai Founder PCB Development Co., Ltd.	Presentation S27 The convection-dependent competitive adsorption of copper electroplating additives in open circuit for PCB via filling Dr Kai Zhu Shennan Circuits Co. Ltd

The 15th Electronic Circuits World Convention (ECWC15) Tentative Program Rundown

DAY 2, 1 DECEMBER 2020 (TUESDAY) - HONG KONG

9:00 - 9:46 am De Shiuk Kac Chang, Managing Patrier of Prisansk Koprota Socion (NS) New Advancing PCE Technology Poster of Prisansk Koprota Socion (NS) New Advancing PCE Technology Poster of Prisansk Koprota Socion (NS) New Advancing PCE Technology Poster of Prisansk Reprotation Manager of ASTR Koprota Socion (NS) New Advancing PCE Technology Poster of Prisansk Patrier of Prisansk	DATE, I BEGEINBER 2020 (TOZOBAT) HOTO KORO				
Presentation SS1 2.15 - 2.45 pm 3.15 - 3.45 p	9:00 - 9:45 am				
10:30 - 11:15 am Industrial IoT. Mistakas Mado, Lessons Learned Based on Real-Life Installations Mr Hajims Sulphyman, Industrial To Evangelist. 11:30 - 11:45 am Q&A session 1 12:30 - 11:45 am Q&A session 1 13:45 - 12:20 pm Q&A session 4 12:30 - 12:20 pm Q&A session 4 12:30 - 10:0 pm Q&A session 5 12:30 - 10:0 pm Q&A session 6 12:30 - 10:0 pm Q&A session 5 12:30	9:45 - 10:30 am	New Advancing PCB Technology			
11:30 - 11:45 am Q&A session 1 11:45 - 12:00 pm Q&A session 4 Presentation S28 SG EMI Shielding Assembly Solution for System in Package Siliconvarian Production Industries Co. Ltd. (SRIL) Presentation S30 Be Fliosible, Go Digital Dr Rudy Coquet Agria-Geveent NV Presentation S31 A Novel Glass Antenna Fabrication with Single TGV for SG Communication Applications Mr Tu Hahang Chang Industrial Technology Research Institute, Talmen Integrity of PCB Transmission Line History of PCB Transmission Histo	10:30 - 11:15 am	Keynote Session (K6) 10:30 - 11:15 am Industrial IoT. Mistakes Made, Lessons Learned Based on Real-Life Installations Mr Hajime Sugiyama, Industrial IoT Evangelist,			
11-45 - 12:00 pm	11:15 - 11:30 am		BREAK		
12:00 - 12:30 pm Solution S28 So EMI Shielding Assambly Solution Amen Su Siliconware Precision Industries Co. Lot (SPL) Presentation S30 Siliconware Precision Industries Co. Lot (SPL) Presentation S31 Be Fiexble, Go Digital Dr Rudy Coquet Agra-Geware NV Agra-Geware NV Presentation S32 Study of SM Ink-jar Printing Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing An Advanced Horizontal Electroless Copper Plating Technology in PCB manufacturing Presentation S33 An Electronic Net PCB Industrial Technology Research Institute, Tailwan Electroless Copper Plating Technology in PCB Industrial PCB Electronic S35 Enablish Nickel-free Surface Dr. Manufacturing Presentation S35 TinySlane Modified Copper Plating Technology Sylvene Incomposing Strength for Signal Loss Reduction High-frequency PCB Lamination High-frequency PCB La	11:30 - 11:45 am	Q&A session 1	Q&A session 2	Q&A session 3	
Sci EMI Shielding Assembly Solution for System in Package Mr James Su Solution for System in Package Mr James Su Siliconware Precision industries Co. Ltd. (SPIL.)	11:45 - 12:00 pm	Q&A session 4	Q&A session 5	Q&A session 6	
12:30 - 1:00 pm Drug/ Coquet Agfa-Gevaert NV Drugy Coquet Because Presentation S34 A Novel Glass Antenna Fabrication with Single TGV for SG Communication Applications Mr Yill-Haing Chang Industrial Technology Research Institute, Tawan Integrity of PGB Transmission Line Mr Stan Holtzel SCC Presentation S37 Temperature Effects on Signal Integrity of PGB Transmission Line Mr Stan Holtzel SCC Presentation S38 Some cases on the structure designs, Integrity of PGB Transmission Line Mr Stan Holtzel European Space Agency Presentation S40 Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Holtzel European Space Agency Presentation S43 The Current Status of Korea's PCB industry Dr Minsu Lee Nore all Electronic Science and Technology of China European Space Agency Presentation S40 Mr Pag Sun Sun Yat-sen University Dr Minsu Lee Mr Stan Holtzel European Space Agency Presentation S40 Mr Pag Sun Sun Yat-sen University Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Core Electronic Packaging and Circuits Association Presentation S41 The Agricuit Fuel Cell for Self-Charging Mr Pag Sun Sun Yat-sen University Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel European Space Agency Dr Minsu Lee Mr Stan Holtzel Electronic Technology Dr Mr Pag Sun Mr Stan Holtzel Dr Mr Stan Holtzel Dr Mr Stan Holtzel Dr Mr Stan Holtzel Dr Mr Stan Holtzel	12:00 - 12:30 pm	5G EMI Shielding Assembly Solution for System in Package Mr James Su Siliconware Precision Industries	Embedded Deep Learning Inference platform for Medical Image Segmentation Dr Yu-Jung Huang	Reliability and challenge analysis for 3D printed PCB Mr Liyang Chen Guangzhou Fastprint Circuit Tech	
Presentation S34 A Novel Glass Antonna Fabrication with Single TGV for SC Communication Applications Mr Yu-Hsiang Chang industrial Technology Research industrial Technology of China 2.45 - 3:15 pm 2.46 - 3:16 pm 2.45 - 3:15 pm 2.46 - 3:15 pm 2.46 - 3:15 pm 2.46 - 3:15 pm 2.47 - 3:15 pm 2.48 - 3:15 pm 2.49 - 3:15 pm 2.45 -	12:30 - 1:00 pm	Be Flexible, Go Digital Dr Rudy Coquet	Study of SM Ink-jet Printing Technology in PCB manufacturing Mr Tie Li Dongguan Wuzhu	An Advanced Horizontal Electroless Copper Plating Technology Ms Xiao-Hong Li	
2:15 - 2:45 pm A Novel Glass Antenna Fabrication with Single TGV for SG Communication Applications Mr YiL-Hslang Chang Industrial Technology Research Institute, Taiwan Presentation S37 Temporature Effects on Signal Integrity of PCB Transmission Line Ms Xiaojing Ye SCC 3:15 - 3:45 pm Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Holtzel European Space Agency 3:15 - 3:45 pm Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Holtzel European Space Agency 3:45 - 4:15 pm 3:45 - 4:15 pm Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Holtzel European Space Agency Bresentation S43 The Current Status of Korea's PCB Industry Dr Minsu Lee Korea Electronics Packaging and Circuits Association At 15 - 4:30 pm Presentation S46 IPC CFX: Standards-Based IIoT for All-inclusive Interoperability Mr Michael Ford Aegis Software, UK Agis Software, UK Presentation S49 Application of CCD Drilling Machine in Back Drilling Mr Gen dai Zhong Delton Technology (Guang Zhou) Inc. Reliable Nickel-free Surface, High Frequencies Trinins for New High Frequencies Trechnology of Cs, Ltd. Presentation S37 Presentation S38 Some cases on the structure designs, simulation and signal integrity test of printed circuit bord for S6 Cohina Presentation S40 In-plane printed Micro-Supercapacitor with Integral Photocatalytic Fuel Cell for Self-Charging Mr Peng Sun Sun Yat-sen University Jispane printed Micro-Supercapacitor with Integral Photocatalytic Fuel Cell for Self-Charging Mr Peng Sun Sun Yat-sen University Jispane Presentation S42 The Application of Innovative Industrial Water-saving Technology (Integrated Propertion Active Company Presentation S44 The Application of Innovative Industrial Water-saving Technology (Integrated Propertion Active Company Integrated Propertion Active Company Integrated Propertion Active Company Integrated Propertion Active Company Integrated Propertion Active Company Integ	1:00 - 2:15 pm		LUNCH BREAK		
2:45 - 3:15 pm Temperature Effects on Signal Integrity of PCB Transmission Line Ms Xiaojing Ye SCC Schort Sch	2:15 - 2:45 pm	A Novel Glass Antenna Fabrication with Single TGV for 5G Communication Applications Mr Yiu-Hsiang Chang Industrial Technology Research	Reliable Nickel-free Surface Finish for Next Generation PCB Technologies - 5G, HDI, RF-Microwave, High Frequencies Dr Kunal Shah	Tin/Silane Modified Copper Enhances Interlayer Bonding Strength for Signal Loss Reduction in High-frequency PCB Lamination Mr Haolin Li Chongqing Founder Hi-Tech	
Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Heltzel European Space Agency 3:15 - 3:45 pm Presentation S43 The Current Status of Korea's PCB industry Dr Minsu Lee Korea Electronics Packaging and Circuits Association Presentation S46 IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Michael Ford Alegis Software, UK Presentation S49 Application of CCD Drilling Machine in Back Drilling Mr Gen dai Zhong Delton Technology (Guang Zhou) line. In-plane printed Micro-Supercapacitor with Integral Photocatalytic Fuel Cell for Self-Charging Mr Peng Sun Sun Yat-sen University Integral Photocatalytic Fuel Cell for Self-Charging Mr Peng Sun Sun Yat-sen University Integral Photocatalytic Fuel Cell for Self-Charging Mr Peng Sun Sun Yat-sen University Presentation S43 The Current Status of Korea's PCB industry Dr Minsu Lee Korea Electronics Packaging and Circuits Association Presentation S40 Presentation S46 IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Mr Michael Ford Alegis Software, UK Presentation S49 Application of Innovative Industry Mr Radu Costit Diaconescu, Swissmic SA Presentation S47 Development of novel low-temperature curable positive-tone photosensitive polybenzoxazole with high reliability Satomi Fukushima Taiyo Holdings Co. Ltd. Presentation S49 Application of CCD Drilling Machine in Back Drill	2:45 - 3:15 pm	Temperature Effects on Signal Integrity of PCB Transmission Line Ms Xiaojing Ye	Some cases on the structure designs, simulation and signal integrity test of printed circuit board for 5G communication application Dr Yuanming Chen University of Electronic Science and	Stretchable Ni@NiCoP Textile for Wearable Energy Storage Clothes Mr Peng Sun	
The Current Status of Korea's PCB industry Dr Minsu Lee Korea Electronics Packaging and Circuits Association BREAK Presentation S46 IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Michael Ford Aegis Software, UK Presentation S49 Application of CCD Drilling Mr Cang Lai Satomi Fukushima Taiyo Holdings Co. Ltd. Presentation S50 Research and Sharing of Resin Plug Hole Equipment and Quality Problems Based on 56 High-speed PCB Mr Maolin Liu Guangzhou Jiejun Electronic Technology Mr Radu Costin Diaconescu, Swissmic SA Presentation S47 Presentation S48 The Development of a New Oxide Replacement Process to Meet the High Process Cleanliness Requirements of mSAP Production Dr Thomas Thomas Atotech Deutschland GmbH Presentation S49 Application of CCD Drilling Mr Gen dai Zhong Delton Technology (Guang Zhou) Inc. Guangzhou Jiejun Electronic Technology Co., Ltd	3:15 - 3:45 pm	Advanced PCB technologies for space and their assessment using up-to-date standards Mr Stan Heltzel	In-plane printed Micro-Supercapacitor with Integral Photocatalytic Fuel Cell m for Self-Charging Mr Peng Sun	Discussion on the operation and management plan of PCB sanufacturers to maintain sustainable profit under current situation Mr Bo Chen Jiangxi Zhihao Electronic Technology	
Presentation S46 IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Michael Ford Aegis Software, UK Presentation S47 Development of novel low-temperature curable positive-tone photosensitive polybenzoxazole with high reliability Satomi Fukushima Taiyo Holdings Co. Ltd. Presentation S48 The Development of a New Oxide Replacement Process to Meet the High Process Cleanliness Requirements of mSAP Production Dr Thomas Thomas Atotech Deutschland GmbH Presentation S50 Research and Sharing of Resin Plug Hole Equipment and Quality Problems Based on 5G High-speed PCB Mr Maolin Liu Guangzhou Jiejun Electronic Technology Co., Ltd	3:45 - 4:15 pm	The Current Status of Korea's PCB industry Dr Minsu Lee Korea Electronics Packaging and	The Application of Innovative Industrial Water-saving Technology in PCB Industry Mr Qiang Lai Guangzhou Jiejun Electronic	IPC Secure Material Supply Network With Blockchain-Powered Anonymity Mr Radu Costin Diaconescu,	
4:30 - 5:00 pm IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Michael Ford Aegis Software, UK Iow-temperature curable positive-tone photosensitive polybenzoxazole with high reliability Satomi Fukushima Taiyo Holdings Co. Ltd. The Development of a New Oxide Replacement Process to Meet the High Process Cleanliness Requirements of mSAP Production Dr Thomas Thomas Atotech Deutschland GmbH	4:15 - 4:30 pm		BREAK		
Application of CCD Drilling Machine in Back Drilling 5:00 – 5:30 pm Mr Gen dai Zhong Delton Technology (Guang Zhou) Inc. Research and Sharing of Resin Plug Hole Equipment and Quality Problems Based on 5G High-speed PCB Mr Maolin Liu Guangzhou Jiejun Electronic Technology Co., Ltd	4:30 - 5:00 pm	IPC CFX: Standards-Based IIoT for All-Inclusive Interoperability Mr Michael Ford	Development of novel low-temperature curable positive-tone photosensitive polybenzoxazole with high reliability Satomi Fukushima	The Development of a New Oxide Replacement Process to Meet the High Process Cleanliness Requirements of mSAP Production Dr Thomas Thomas	
5:30 - 5:45 pm Q&A session 7 Q&A session 8 Q&A session 9	5:00 – 5:30 pm	Application of CCD Drilling Machine in Back Drilling Mr Gen dai Zhong Delton Technology (Guang	Research and Sharing of Resin Plug Hole Equipment and Quality Problems Based on 5G High-speed PCB Mr Maolin Liu Guangzhou Jiejun Electronic Technology		
	5:30 - 5:45 pm	Q&A session 7	Q&A session 8	Q&A session 9	

Q&A session 11

Q&A session 12

5:45 - 6:00 pm

Q&A session 10

The 15th Electronic Circuits World Convention (ECWC15) **Tentative Program Rundown**

DAY 3, 2 DECEMBER 2020 (WEDNESDAY) - SHENZHEN

10:00 am	HKPCA Show Opening Ceremony
10 <mark>:30</mark> – 10:40 am	Welcome Messages
10:40 - 11:25 am	Keynote Session (K7) The New World of 5G Trend Mr. Zhe Liu, Chief Engineer of ZTE Corporation
11:25 - 12:10 pm	Keynote Session (K8) PCB Application on Electrical Products Dr. Dahai Yu, General Manager of TCL Corporate Research (Hong Kong) Co., Limited
12:10 – 2:00 pm	LUNCH BREAK
2:00 – 2:30 pm	GOLD SPONSOR Session PCB制造导通孔黑影工艺应用介绍

Keynote Session (K9) **Smart Home to A.I** 2:30 - 3:15 pm Representative from Xiaomi Corporation

Panel Discussion

Mr Huang Jin, Technical Director of Shenzhen Baikal Electronic Materials Co., Ltd.

The Development of 5G and its Driver for PCB Industry

4:30 - 5:00 pm **Closing Ceremony**

3:15 - 4:30 pm

The 15th Electronic Circuits World Convention (ECWC15) **Poster Presentation**

PAPER SCOPE	PAPER TITLE	AUTHOR	COMPANY
Materials, Components and Traceability	Requirements on new generation adhesive system for high-frequency & high-speed and high density flex PCBs	Mr Genghong Chen	Nikkan Industries Co., Ltd.
Manufacturing	Technical developments and application study of microwave PCB	Mr Huanxin Yuan	China Circuit Technology (Shantou) Corporation
Manufacturing	The development and application of high frequency & high speed PCB	Mr Huanxin Yuan	China Circuit Technology (Shantou) Corporation
Manufacturing - Process Development	Research on the process optimization of buried sub-board PCB	Mr Junquan Wu	KingBrother Technology Limited
Manufacturing - Process Development	Defect analysis and improvement of micro via filling plating use SOC process	Mr Beston Liu	Guangdong Guanghua
Manufacturing - Process Development	Study on processing technology of antenna panel using PTFE covering film	Hengwen Li	Shennan Circuits Co., Ltd
Manufacturing - Equipment	Development of Embedded Ceraminc PCB Technology	Mr Chengguang Ji	Shengyi Electronics Co
Quality, Test, and Life Cycle Management	Research and improvement on the lamination void Of HDI boards	Mr Gangjun Zhao	Shengyi Electronics Co
Quality, Test, and Life Cycle Management	The Research on the influence of resistance value of embedded resistance products	Jun Du	Dong guan Hong Yuen electronics co., Ltd.
Quality, Test, and Life Cycle Management	PCB electrical measurement technology for large "D" shaped pads with soldermask and window opening	Mr XingPei Nie	Huizhou Jinbaize Circuit Technology Co., Ltd.
Quality, Test, and Life Cycle Management	Research on Technology of Embedding Discrete Components in PCB	Mr Liqin Chen	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	Study on Growth Mechanism and Characteristics of Tin Whiskers in Immersion Tin	Ms Ting Jin	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	Study on Mechanism of Bonding Tin Beads Produced by Wave Soldering Process	Mr Yafeng Deng	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	Study on Pull Strength of Rigid PCB	Mr Dingfeng Luo	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	Study on the mechanism of annular ring of plated-through hole crazing failure mode in PCB with ENIG a surfac treatment	Ms Xuemei Zhang	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	Study on the SMT Process And Mechanism of Temperature Change Failure of CBGA Mixed Solder Joints	Ms Ting Jin	Guangzhou FastPrint Circuit Tech Co., Ltd
Quality, Test, and Life Cycle Management	The mechanism of plated-through hole electrolytic corrosion failure	Ms Xuemei Zhang	Guangzhou FastPrint Circuit Tech Co., Ltd

The 15th Electronic Circuits World Convention (ECWC15) Poster Presentation

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PAPER SCOPE	PAPER TITLE	AUTHOR	COMPANY
Quality, Test, and Life Cycle Management	FTIR Application in area of Foreign Material Analysis	Ms Angela Lee	TTM Technologies
Quality, Test, and Life Cycle Management	New Technical Model of detection of " short circuit defect" of embedded single winded inductor coil circuit image of PCB	Mr Rick Chung	Olympic Circuit Technology Co. Ltd
PCB Process	The Effect of Water-Jet Pressure on the PTH Reliability and the Quality of Electroless Cu Films	Dr Xiao-Hong Li	Guangdong Skychem Technologies Ltd
PCB Process - Chemical Technology	Study on the mechanism of short circuit initiation of PTFE board PCB Immersion silver	Mr Jian Zhang	Shengyi Electronics Co
PCB Process - Chemical Technology	High performance nano palladium colloid and its application in horizontal PTH	Dr Lei <mark>Zhan</mark> g	Shenzhen Tianxi science development Co., LTD
PCB Process - Chemical Technology	Study of anti-bleeding additive effect on ink-jet solder mask	Mr Tie Li	Dongguan WuZhu Electronic-tech Co., Ltd.
PCB Process - Mechanical Technology	Depth Control Mechanism Comparison between Depth Controlled Drilling and Depth Controlled milling	Mr Haibo Zou	Aoshikang Technology Co., Ltd.
Energy Harvesting / Green Energy	Discussion on recycling technology of machining waste in PCB industry	Mr Xiaobin Xu	Glorysky Electronics Co., Ltd
Energy Harvesting / Green Energy	Add Algae Systems Into Sha Tin Sewage Treatment Works	Ms Lili Chen	HKPC
Advanced and Emerging Technologies	Prospect of Application of Plasma in Circuit Board Industry	Mr Wen Hui, Sun	Zhuhai Henger Electronics Technical Co., LTD
Advanced and Emerging Technologies	The study on different ultra thin foils with carrier for manufacturing fine line (For MSAP process)	Ms HuaLi Chen	China Circuit Technology (ShanTou) Company
5G Requirements on PCB	Estimation of High-Frequency CCL Materials from Chinese Local Suppliers for 5G RF application	Mr Wen-Ren Chen	Sunshine Global Circuits Co., Ltd.
Smart Living Applications	Neuroscience Analysis for Education	Mr Qi Zheng	The University of Hong Kong

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