

DAY 1: December 3, 2024 (Tuesday)	
08:00am - 08:55am	Registration
Venue	Grand Ballroom
09:00am - 09:15am	Opening Ceremony
09:15am - 10:00am	Dr Calvin Cheung , VP, ASE Group KEYNOTE: TBC
10:00am - 10:45am	Glenn G. Daves , Senior VP, NXP Semiconductors KEYNOTE: Packaging at the Emerging Edge
10:45am - 11:00am	Coffee/Tea Break (Grand Ballroom Foyer)
11:00am - 12:30pm	Panel Session: Enhancing Southeast Asia's Importance in the Global Semiconductor Supply Chain (Moderator: Keat Yap, Kearney)
	Panelist: Andrew Goh (Lam Research), Chan Pin Chong (Kulicke and Soffa), Soon Lim (SSMC), Bertrand Stoltz (STMicroelectronics) and Wee Seng Ang (SSIA)
12:30pm - 1:30pm	Lunch @ Grand Ballroom Foyer (Level 4)
Venue	Grand Ballroom
1:30pm - 2:15pm	Dr Yu-Po Wang , VP, Siliconware Precision Industries Co., Ltd. KEYNOTE: Breaking Boundaries of IC Packaging through Innovative Integration Technology
2:15pm - 3:00pm	Tim Olson , CEO, Deca Technologies KEYNOTE: Tectonic Forces Shaping the Future of the Semiconductor Industry
3:00pm - 3:45pm	Dr Devan Iyer , Chief Strategist (Advanced Packaging), IPC International KEYNOTE: Advanced Packaging-Customization Trends and Standardization Opportunities
3:45pm - 4:00pm	Tea Break & Exhibition (Grand Ballroom Foyer)
4:00pm - 5:30pm	Panel Session: The Role of Co-Packaged Optics in Advancing AI Technologies (Moderator: Matt Kelly/Dr Devan Iyer, IPC International Inc.) Panelist: Dr Masaki Kato (Marvell), Dr Torseten Wipiejewki (Huawei), Prof Subramanian S Iyer (UCLA), Dr Calvin Cheung (ASE) and PV Ramana (Lightspeed Photonics)
6:00pm - 8:00pm	VIP Dinner (by invitation only)

DAY 2: December 4, 2024 (Wednesday)						
Exhibition at Waterfront Foyer from 10:30am to 5:30pm (Level 2)						
Venue	Veranda I	Veranda II	Veranda III	Riverfront I	Riverfront II	Riverfront III
08:45am - 10:30am	PDC1: Chiplet, Heterogeneous Integration and Co-Packaged Optics	PDC2: Photonic Technologies for Communication, Sensing and Displays	PDC3: Wafer Bonding for Advanced Packaging Applications	PDC4: Current and Future Challenges and Solutions in AI & HPC	PDC5: Mechanics and Reliability of Lead-Free Solders Joints	PDC6: Failure Analysis of Advanced Packages: Fundamental, Skills, Philosophy & Case Studies
	Dr John H. Lau, Unimicron Technology Corporation	Dr Torseten Wipiejewski, Huawei	Dr Viorel Dragoi, EV Group	Dr Refai-Ahmed Gamal, AMD	Professor Jeff Suhling, Auburn University	Dr Yong-Fen Hsieh, MA-Tek
10:30am - 11:00am	Tea Break & Exhibition (Waterfront Ballroom Foyer)					
11:00am - 12:30pm	PDC1 (cont'd)	PDC2 (cont'd)	PDC3 (cont'd)	PDC4 (cont'd)	PDC5 (cont'd)	PDC6 (cont'd)
12:30pm - 2:00pm	EPS Luncheon @ Waterfront Ballroom (Level 2)					
2:00pm - 2:45pm	Professor Subramanian S. Iyer , Distinguished Professor, UCLA KEYNOTE: Strategic Directions for Electronics Packaging					
2:45pm - 3:15pm	Dr Victor Zhirnov , Semiconductor Research Corporation (SRC) TECHNOLOGY TALK: New Roadmap for Microelectronics: Charting the Semiconductor Industry's Path Over the Next 5, 10, and 20 Years					
3:15pm - 4:15pm	R10 Chapter Chairs' Meeting	Interactive Poster Presentation I / Exhibition / Coffee Break @ Waterfront foyer				
4:15pm - 6:15pm	Sponsor Presentations at Riverfront II and III – Plus Quiz & Prizes!					
6:15pm - 6:30pm	Transport to EPTC Banquet Dinner					
6:30pm - 9:00pm	EPTC Banquet Dinner, RedDot BrewHouse @ Dempsey Hill					

DAY 3: December 5, 2024 (Thursday AM)

Exhibition at Waterfront Foyer from 9:00am to 5:30pm (Level 2)

Venue	Veranda I	Veranda II	Veranda III	Riverfront I	Riverfront II	Riverfront III
09:00am -09:30am	Invited Talk 1: James Papanu, Tokyo Electron Limited D2W Hybrid & Fusion Bonding to Enable Advanced Packaging	Invited Talk 2: Tan Yik-Yee, Yole Group Glass Core Substrate Market and Opportunity	Invited Talk 3: Winston Zhang, Novark Technologies Pulsating Heat Pipes for Electronics Cooling	Invited Talk 4: Chan Pin Chong, Kulicke & Soffa Fluxless TCB for Chiplet Integration	Invited Talk 5: Chai Tai Chong, IME RDL-First Interposer Technology for Next Generation Advanced Packaging	Invited Talk 6: Hardik Kabaria, Vinci4D Towards AI-Assisted Design of Thermal Management Strategies
09:30am -10:30am	A1. Hybrid and Fusion Bonding 1	A2. Wafer Processing and Characterization	A3. Emerging Technologies I	A4. Advanced Packaging 1	A5. TSV and Wafer Level Packaging 1	A6. Thermal Management and Characterization 1
09:30am - 09:50am	A1.1 (P1187) Improved Edge Detection Algorithm for Blurred Alignment Marks in Hybrid Bonding <i>Sugiura, Takamasa (1); Nagatomo, Daisuke (1); Kajinami, Masato (1); Ueyama, Shinji (1); Tokumaya, Takahiro (1); Oh, Seungyeol (2); Ahn, Sungmin (2); Choi, Euisun (2); Woo, Siwoong (2); Lee, Hyunjin (2); Lee, Byungjoon (2); Rhee, Minwoo Daniel (2)</i> Samsung Japan Corporation (1)	A2.1 (P1412) Comprehensive Die Strengths Comparisons for Glass using Different Singulation Methods Wei, Frank DISCO Corporation, USA	A3.1 (P1367) Trade-off between Chiplet Dimensions and Packaging Parameters for Optimal cost-performance for Chiplet Based Heterogenous Integration <i>Sahoo, Krutikesh (1); Zhai, Max (2); Iyer, Subramanian (1)</i> UCLA, USA (1)	A4.1 (P1262) Dual Damascene process for 500nm RDL using High Resolution Photosensitive Polymer <i>Gerets, Carine Helena; Pinho, Nelson; Tseng, Wen Hung; Paulus, Tinneke; Labyedh, Nouha; Beyer, Gerald; Miller, Andy; Beyne, Eric</i> IMEC, Belgium	A5.1 (P1344) Accelerating Overlay Error Optimization in Fine-Pitch Wafer-to-Wafer Hybrid Bonding through ML <i>James, Ashish (1); Venkataraman, Nandini (2); Miao, Ji Hong (2); Singh, Navab (2); Li, Xiaoli (1)</i> Institute for Infocomm Research, Singapore (1)	A6.1 (P1136) Thermal Design and Analysis of a Flip-Chip GaN-on-SiC HEMT <i>Feng, Huicheng; Zhou, Lin; Tang, Gongyue; Wai, Eva Leong Ching; Lim, Teck Guan</i> Institute of Microelectronics, Singapore
09:50am - 10:10am	A1.2 (P1195) Post-CMP Clean Optimization for SiCN Hybrid Bonding Applications <i>Ji, Hongmiao (1); LEE, Chaeun (1); TEE, Soon Fong (1); TEO, Wei Jie (1); TAN, Gee Oon (1); Venkataraman, Nandini (1); Lianto, Prayudi (2); TAM, Avery (2); LEE, Joseph (2); SUM, Darren (2); SEOW, Kavan (2); CHEOK, Kelvin (2); CHONG, Hoi Jin (2); TAMBOLI, Dnyanesh (3); TEO, Melvin (3)</i> Institute of Microelectronics, Singapore (1)	A2.2 (P1388) 200mm Reconstituted Wafer for Fan-out of Microfluidics and CMOS Electronics <i>Wei, Wei; Zhang, Lei; Tobback, Bert; Visker, Jakob; Stakenborg, Tim; Karve, Gauri; Tezcan, Deniz Sabuncuoglu</i> IMEC, Belgium	A3.2 (P1253) Feasibility and Performance of Fully Additive Manufactured Light Bulbs <i>Ankenbrand, Markus; Piechulek, Niklas; Franke, Jörg</i> Friedrich-Alexander Universität Erlangen Nürnberg, Germany	A4.2 (P1342) ECC-based Flux Cleaning Monitoring for Improved Reliability in Advanced Packaging Products <i>Wang, Yusheng; Huang, Baron; Lin, Wen-Yi; Zou, Zhihua; Kuo, Chien-Li</i> TSMC, Taiwan	A5.2 (P1373) Study of Direct Copper Electroplating on Ruthenium Seed Layer for TSV Processes at 300mm Wafer Level <i>Tran, Van Nhat Anh; Venkataraman, Nandini; Tseng, Ya-Ching; Chen, Zhixian</i> Institute of Microelectronics, Singapore	A6.2 (P1163) Silicon-Based Micro-Fluid Cooler Package Integration for High Performance Computing <i>Han, Yong; Tang, Gongyue; Lau, Boon Long</i> Institute of Microelectronics, Singapore
10:10am - 10:30am	A1.3 (P1369) Maximizing Productivity through Bonding Sequence Optimization in the Chip on Wafer Process <i>Kim, Junsang (1); Yun, Hyeonjun (1); Kang, Mingu (1); Cho, Kwanghyun (1); Cho, Hansung (1); Kim, Yunha (1); Moon, Bumki (1); Rhee, Minwoo (1); Jung, Youngseok (2); Lee, Byungjoon (1); Kwon, Ohwoon (2); Joung, Geewoong (2); Kim, Jisu (1); Lee, Jungchul (2)</i> Samsung Electronics, South Korea (1)	A2.3 (P1332) Diffraction Alignment Sensor and Mark Design Optimization to Enable Fine Overlay Accuracy for 50 um Thick Si Bonded to Glass <i>Tamaddon, Amir-Hosseini (1); Jadhli, Imene (1); Suhard, Samuel (1); Jourdain, Anne (1); Hsu, Alex (2); Schaap, Charles (2); De Poortere, Etienne (2); Miller, Andy (1); Kennes, Koen (1); Blanco, Victor (1)</i> IMEC, Belgium (1); ASML (2)	A3.3 (P1377) Innovations and Challenges in Laser Direct Structured Mechatronic Integrated Devices for Aviation <i>Piechulek, Niklas; Ankenbrand, Markus; Xu, Lei; Fröhlich, Jan; Nguyen, Huong Giang; Franke, Jörg</i> Lehrstuhl für Fertigungsautomatisierung und Produktionssystematik	A4.3 (P1256) Defluxing in Advanced Packaging: Critical Process Considerations and Solutions <i>Parthasarathy, Ravi</i> ZESTRON Americas	A5.3 (P1227) Utilizing Ensemble Learning on Small Database for Predicting the Reliability Life of Wafer-Level Packaging <i>Su, Qinghua (1); Yuan, Cadmus (2); Chiang, Kuo-Ning (1)</i> National Tsing Hua University, Taiwan (1)	A6.3 (P1103) Power Management IC device Efficiency & Thermal Study <i>Ge, Garry; Xu, L. Q.; Zhang, Bruce; Zeng, Dennis</i> NXP Semiconductor Company, China
10:30am - 10:45am	Tea Break & Exhibition (Waterfront Ballroom Foyer)					
10:45am -11:45am	B1. Hybrid and Fusion Bonding 2	B2. Interconnection Technologies 1	B3. Thermal Interface Materials	B4. Advanced Packaging 2	B5. Assembly and Manufacturing Technology 1	B6. Thermal Management and Characterization 2
10:45am - 11:05am	B1.1 (P1211) Next Generation of Thermo Compression Bonding Equipment Abdilla, Jonathan Besi, Austria	B2.1 (P1221) Study of Solder Bump and Joint Standoff Height Profiles Using Empirical and Numerical Methods Wang, Yifan; Yeo, Alfred; CHAN, Kai Chong STATS ChipPac, Singapore	B3.1 (P1113) Evaluation of TIM Cross-Sectioning Methods on Lidded High-Performance Microprocessors <i>Neo, Shao Ming; Song, Mei Hui; Tan, Kevin Bo Lin; Lee, Xi Wen; Oh, Zi Ying; Foo, Fang Jie</i> AMD, Singapore	B4.1 (P1357) Investigation of UBM/RDL Contact Resistance Based on ICP Sputter Etch Conditions and Critical Design Dimensions <i>Carazzetti, Patrik (1); Drechsel, Carl (1); Haertl, Nico (1); Weichart, Jürgen (1); Viehweger, Kay (2); Strolz, Ewald (1)</i> Evatec AG, Switzerland (1)	B5.1 (P1230) Investigation Of Multi Beam Laser Grooving Process And Die Strength for 55nm Code Low-k Wafer <i>Xia, Mingyue; Wang, Jianhong; Xu, Sean; Li, guangming; Liu, haiyan; Zhu, lingyan</i> NXP, China	B6.1 (P1274) Real-time Evaluation of Effective Thermal Conductivity Profile for the Redistribution Layer (RDL) <i>Liu, Jun; Li, Yangfan; Cao, Shuai; Sidhar, N.</i> IHPC, A*STAR, Singapore
11:05am - 11:25am	B1.2 (P1316) Parylene as an adhesive for wafer and chip bonding as well as for applications in wafer level packaging <i>Selbmann, Franz (1,2); Kühn, Martin (1,2); Roscher, Frank (1); Wiemer, Maik (1); Kuhn, Harald (1,3); Joseph, Yvonne (2)</i> Fraunhofer Institute for Electronic Nano Systems, Germany (1)	B2.2 (P1134) Solder Ball Alloy Effect on Board Level Reliability Thermal Cycling and Vibration Test Enhancement <i>Chen, Fa-Chuan (1); Yu, Kevin (1); Lin, Shih-Chin (1); Chu, Che-Kuan (2); Lin, Tai-Yin (2); Lin, Chien-Min (2)</i> Mediatek, Taiwan	B3.2 (P1125) Analysis of Indium-Silver Alloy Thermal Interface Material Reliability and Coverage Degradation Mechanisms <i>MinJae Kong, DongHyeon Park, Won Ree, YoungJun Koo, JoHyun Bae, YeonKi Jeong, EunSook Sohn, DongSu Ryu, DongJoo Park and KyungRok Park</i> Amkor, Korea	B4.2 (P1389) Precise Wavelength Control in Fabry-Perot Filters using Thin Etch Stop Layers <i>Babu Shylaja, Tina; Tack, Klaas; Sabuncuoglu Tezcan, Deniz</i> IMEC, Belgium	B5.2 (P1215) An Optimization Study with Batch Microwave Plasma On Extra <i>LOO, Shei Meng; LEONE, Federico; CAICEDO, Nohora</i> STMicroelectronics, France	B6.2 (P1282) POD-ANN Thermal Modelling Framework for Rapid Thermal Analysis of 2.5D Chiplet Designs <i>Li, Yangfan; Liu, Jun; Cao, Shuai; Sidhar, Narayanaswamy</i> IHPC, A*STAR, Singapore
11:25am - 11:45am	B1.3 (P1368) Process Development of Chip to Wafer Hybrid Bonding with Polymer Passivation Xie, Ling Institute of Microelectronics, Singapore	B2.3 (P1185) Navigating the Optimal Material Selection for RF Transmission Lines in Cryogenic Systems <i>Lau, Daniel (1); Bhaskar, Vignesh Shanmugam (1); Ng, Yong Chyn (1); Zhang, Yiyu (2); Goh, Kuan Eng Johnson (2); Li, Hongyu (1)</i> Institute of Microelectronics, Singapore	B3.3 (P1225) Selection of Non-clean Flux for Metal TIM <i>Li, Dai-Fei; Teng, Wen-Yu; Hung, Liang-Yih; Kang, Andrew; Wang, Yu-Po</i> Siliconware Precision Industries Co., Ltd., Taiwan	B4.3 (P1348) Packaging technology for Sub-terahertz antenna in module <i>Murayama, Kei (1); Taneda, Hiroshi (1); Tsukahara, Makoto (1); Hasaba, Ryosuke (2); Morishita, Yohei (2); Nakabayashi, Yoko (1)</i> Shinko Electric Industries Co., Ltd, Japan (1); Panasonic, Japan (2)	B5.3 (P1255) In-situ Characterization of Plasma Species for Process Optimization and Improvement <i>Chou, Djamilia; Capellaro, Laurence; Caicedo, Nohora</i> STMicroelectronics, France	B6.3 (P1171) Effect of Contact Characteristics on Thermal Contact Resistance of Grease-less Uniform Contact Surfaces <i>Aoki, Hirotoishi (1); Fushinobu, Kazuyoshi (2); Tomimura, Toshio (3)</i> KOA Corporation, Japan (1)
11:45am -1:00pm	EPTC Luncheon @ WaferFront Ballroom (Level 2)					

Venue	Veranda I	Veranda II	Veranda III	Riverfront I	Riverfront II	Riverfront III
1:00pm - 2:00pm	C1. Electrical Simulations & Characterization 1	C2. Wireless and Antenna Package Designs	C3. Materials and Processing 1	C4. Mechanical Simulation & Characterization 1	C5. TSV and Wafer Level Packaging 2	C6. Thermal Management and Characterization 3
1:00pm - 1:20pm	C1.1 (P1108) Signal integrity analysis of dense wire channels on 2.5D substrate technologies for UCle and BOW applications <i>Rotaru, Mihai Dragos</i> Institute of Microelectronics, Singapore	C2.1 (P1397) A Compact 1x4 Antenna Array with Steerable Beam for 5G millimeter-Wave Smartphone Applications <i>Hsieh, Sheng-Chi</i> ASE Group, Taiwan	C3.1 (P1159) Photosensitive aqueous alkaline developable magnetic material for inductor and balun transformers in 3D WLP <i>Masuda, Seiya; Idei, Hiroaki; Miyata, Tetsushi; Oi, Shota; Suzuki, Hiroyuki</i> FUJIFILM Corporation, Japan	C4.1 (P1324) Copper balance and wafer level warpage control and effect of package stress and board-level TC solder joint reliability <i>Mandal, Rathin</i> Institute of Microelectronics, Singapore	C5.1 (P1396) Advantages of Digital Lithography in Patterning of UHD FoWLP Utilizing Novel PI Dielectrics <i>Varga, Ksenija</i> EV Group, Austria	C6.1 (P1354) Efficient Thermal-Aware Floor-planning with Bayesian Optimization: A Simulation-Efficient Approach <i>Hegeđus, János; Takács, Dalma; Hantos, Gusztáv; Poppe, András</i> Institute for Infocomm Research, Singapore
1:20pm - 1:40pm	C1.2 (P1161) Design of Underground Structure Cover with Self-Complementary Slits for Wireless Telecommunication Application <i>Rong, Zihao (1); Yi, Yuanlong (1); Tateishi, Eiichi (2); Kumagae, Takaya (2); Kai, Nobuhiro (2); Yamaguchi, Tatsuya (3); Kanaya, Haruichi (1)</i> Kyushu University, Japan (1)	C2.2 (P1139) Development of 2.4GHz band L-shaped Circular Polarized slot antenna <i>Suehiro, Kazuki; Nakashima, Kenta; Kanaya, Haruichi</i> Kyushu University, Japan	C3.2 (P1118) New DA Adhesive Meets Challenging Performance, Reliability and Cost Objectives of Automotive MCU Packaging <i>Kang, Jaesik; Hong, Xuan; Zhuo, Qizhao; Yun, Howard; Shim, Kail; Rathnayake, Lahiru; Surendran, Rejoy; Trichur, Ram</i> Henkel, USA	C4.2 (P1340) Material sensitivity of a fan-out package warpage – simulations and experimental validation <i>Tippabhotla, Sasi Kumar; Soon Wee, David Ho</i> Institute of Microelectronics, Singapore	C5.2 (P1193) Chip to Wafer and Wafer to Wafer Density estimation and Design rules physical verification. <i>Mani, Raju; Dutta, Rahul; Cheemalamarri, Hemanth Kumar; Vasarla Nagendra, Sekhar</i> Institute of Microelectronics, Singapore	C6.2 (P1343) Optimizing Chiplet Placement in Thermally Aware Heterogeneous 2.5D Systems Using Reinforcement Learning <i>Kundu, Partha Pratim (1); Furen, Zhuang (1); Sezin, Ata Kircali (1); Yubo, Hou (1); Dutta, Rahul (2); James, Ashish (1)</i> Institute for Infocomm Research, Singapore (1)
1:40pm - 2:00pm	C1.3 (P1167) Equivalent Electromagnetic Radiation Model of Chip Based on Near-Field Scanning for EMI Analysis in Ceramic SiP <i>Liang, Yaya; Du, Pingan</i> UESTC, China	C2.3 (P1203) Development of Long-Range Wireless Energy Harvesting Circuit by Multistage Cockcroft-Walton Circuit <i>Tagawa, Nobuya; Hosaka, Ryoma; Tanaka, Hayato; IGoodwill, Kumar; Kanaya, Haruichi</i> Kyushu University, Japan	C3.3 (P1246) Doped SAC Solder Ball Alloys Comparison for High Performance Automotive BGA Packages <i>Grollier-lee, Stelliane (1); Capellaro, Laurence (1); Mon, Aye aye (2); Wong, Kim-Sing (2); Loh, Hung-Meng (2); Calcedo, Nohora (1)</i> STMicroelectronics (1)	C4.3 (P1147) Advanced Prediction Model for SACQ Solder Reliability Assessment for Automotive Memory Applications <i>Pan, Ling (1); Che, Faxing (1); Ong, Yeow Chon (1); Yu, Wei (1); Ng, Hong wan (1); Kumar, Gokul (2); Fan, Richard (3); Hsu, Pony (3)</i> Micron Semiconductor Asia Operations, Singapore (1)	C5.3 (P1374) Panel Level Fine Patterning RDL Interposer Package <i>Park, Jieun; Kim, Dahee; Choi, Jaeyoung; Park, Wooseok; Choi, Younchan; Lee, Jeongho; Choi, Wonkyoung</i> Samsung Electronics, South Korea	C6.3 (P1259) From Package Thermal Measurements to Material Characterization: A Remote Phosphor Aging Test <i>Zhuang, Furen (1); Pratim Kundu, Partha (1); Kircali Sezin, Ata (1); Hou, Yubo (1); Dutta, Rahul (2); James, Ashish (1)</i> Budapest University of Technology and Economics
2:00pm - 3:20pm	D1. Electrical Simulations & Characterization 2	D2. Interconnection Technologies 2	D3. Materials and Processing 2	D4. Mechanical Simulation & Characterization 2	Heterogeneous Integration Workshop at Riverfront II and III (2:15pm to 4:15pm)	
2:00pm - 2:20pm	D1.1 (P1272) Crosstalk Analysis for Symmetric and Asymmetric High-Speed Signal Lines of GDDR6 Package <i>Jaiswal, Anushruti (1); Krishna, Vamsi (1); Dhanekeula, Mahesh Babu (1); Desmond Dsilva, Hansel (2)</i> Ansys, India (1); Acronix (2)	D2.1 (P1146) Assembly of Multi-Device Power Package with Clips as Interconnects <i>Wai, Leong Ching; Yeo, Yi Xuan; Soh, Jacob Jordan; Tang, Gongyue</i> Institute of Microelectronics, Singapore	D3.1 (P1137) Novel Residue free High Lead Solder Paste for Power discrete <i>Bai, Jinjin; Li, Yanfang; Liu, Xinfang; Chen, Fen; Liu, Yan</i> Indium, China	D4.1 (P1205) Impact of Structural Parameters on the Warpage of fcBGA Packages with Indium Thermal Interface Material <i>Liu, Zhen (1); Dai, Qiaobo (1); Nie, Linjie (1); Xu, Lanying (1); Teng, Xiaodong (1); Zheng, Boyu (1,2)</i> Changsha AnMuQuan Intelligent Technology, China (1)	2:15pm - 2:20pm	Welcome and agenda review: Surya Bhattacharya (IME)
2:20pm - 2:40pm	D1.2 (P1355) Signal Integrity Simulation and Analysis for 2.5D Advanced Package Interconnect Based on UCle <i>Fan, Yuxuan (1,2); Gan, Hanchen (1,2); Zhou, Yunyan (1); Lei, Bo (1); Song, Gang (1); Wang, Qidong (1)</i> IMECAS, China (1)	D2.2 (P1129) Characterization of Recycled Gold Bonding Wire on Memory Package <i>Chen, Yi-jing; Zou, Yung-Sheng; Chung, Min-Hua; Gan, Chong-Leong</i> Micron, Taiwan	D3.2 (P1220) Low Flux Residue No-Clean Solder Paste for System-in-Package (SiP) Application <i>Liu, Xinfang; Bai, Jinjin; Chen, Fen; Liu, Yan</i> Indium, China	D4.2 (P1141) Impact of Package Warpage on Package Strength Assessment under Three-Point Bending Test Condition <i>Che, Fa Xing (1); Ong, Yeow Chon (1); Yu, Wei (1); Pan, Ling (1); Ng, Hong Wan (1); Kumar, Gokul (2); Takiar, Hem (2)</i> Micron Semiconductor Asia Operations, Singapore (1)	2:20pm - 2:30pm	Opening Remarks (Jeff Suhling, Auburn Univ., IEEE President Elect)
2:40pm - 3:00pm	D1.3 (P1223) Effect of Mesh Ground Plane on Impedance Control and Crosstalk of Organic Interposers Targeted for Chiplet Applications <i>Lim, Ying Ying (1); Nemoto, Shunsuke (2)</i> National Institute of Advanced Industrial Science and Technology, Japan (1)	D2.3 (P1126) Investigation of the Electromigration Behaviour of Solder Bump under Different Conditions <i>Law, Yi Kei Owen (1); Fan, Haibo (1); Zhong, Chenchao Nick (1); Shi, Yuning (2)</i> Nexperia, Hong Kong	D3.3 (P1176) Analysis of Basic Properties and Bonding Properties of Various Melting Temperature Solders <i>Kim, Hui Joong; Lee, Jace; Lee, Seul Gi; Son, Jae Yeol; Won, Jong Min; Park, Ji Won; Kim, Byung Woo; Shin, Jong Jin; Lee, Tae Kyu</i> MKE, South Korea	D4.3 (P1181) Evaluation of Thermo-mechanical Fatigue life of Microvias under PCB Substrate's influence during Reflow Process <i>Syed, Mujahid Abbas; Yu, Qiang</i> Yokohama National University, Japan	2:30pm - 2:40pm	Impact of Chiplets on Packaging Architecture (Subu Iyer, UCLA)
3:00pm - 3:20pm	D1.4 (P1241) Development of Compact Wideband Balun using Multilayer Substrate-integrated Coaxial line <i>Sato, Takumi (1); Kanaya, Haruichi (1); Ichirizuka, Takashi (2); Yamada, Shusaku (2)</i> Kyushu University, Japan (1)	D2.4 (P1168) Investigation of NiSn4 formation in the Relation between SnBi Solder and ENEPIG Substrate <i>Wang, Yi-Wun; Tsai, Cheng-Ting; Lin, Tzu-Yi</i> Tamkang University, Taiwan	D3.4 (P1124) A Novel Method for PBO Adhesion Characterization in WLCSF Package <i>CHEN, Yong; CHANG, Jason; GANI, David; LUAN, Jing-en; CATTARINUZZI, Emanuele</i> STMicroelectronics, Singapore	D4.4 (P1160) Improved Thermal performance of 3D Opto-Electronic IC assembled on multiple Interposers through design optimization <i>Rekapalli, Vamsi (2); Mohammed, Ubed (2); V Ramana, Pamidighantam (1); Yeluripati, Rohin Kumar (1); Bhandari, Jugal Kishore (2); Dharavath, Sandhya (2)</i> Lightspeed Photonics, Singapore	2:40pm - 3:00pm	HDFO, 2.5D and 3D Interconnect Technologies (Vempati Srinivasa Rao, IME)
3:20pm - 4:20pm	Interactive Poster Presentation II / Exhibition / Coffee Break @ Waterfront foyer					
4:20pm - 6:05pm	Exhibitor Presentations at Riverfront II and III – Plus Quiz & Prizes!					
6:05pm - 7:30pm	Sponsor & Exhibitors Appreciation / Networking Session (by invitation only)					
2:40pm - 3:00pm					3:00pm - 3:10pm	Equipment Process Innovation for Advanced Packaging (Loke Yuen Wong, AMAT)
					3:10pm - 3:20pm	Materials Innovations for Heterogeneous Integration (Kaz Yamamoto, Hitachi Chemicals)
					3:20pm - 3:35pm	SHINE: Innovating for HI Infections (Aaron Thean, NUS)
					3:45pm - 4:15pm	Panel Discussion: Subu Iyer (UCLA), Gamal Refai Ahmed (AMD), Patrick Lo, (AMF), Carlos Mazure, (IME), Aaron Thean (NUS), Yu Po Wang (SPIL)

DAY 4: December 6, 2024 (Friday AM)
Exhibition at Waterfront Foyer from 9:00am to 4:30pm (Level 2)

Venue	Waterfront I	Waterfront II	Waterfront III	Riverfront I	Riverfront II	Riverfront III
09:00am -10:20am	E1. Assembly and Manufacturing Technology 2	E2. Emerging Technologies 2	E3. Materials and Processing 3	E4. Mechanical Simulation & Characterization 3	E5. Quality, Reliability & Failure Analysis 1	E6. Silicon Interposer and Processing
09:00am - 9:20am	E1.1 (P1175) Investigation on Molding Void Issue in System-in-Package Module Yang, Chaoran; Tang, Oscar; Song, Fubin Amazon, China	E2.1 (P13520) CMOS compatible 2D material integration for Sensor Applications on 200mm wafers Yoo, Tae Jin; Tezcan, Deniz Sabuncuoglu IMEC, Belgium	E3.1 (P1247) Study on Microstructure and Mechanical Properties of Silver and Silver-Indium Solid Solution Films Using Magnetron Sputtering Zhao, Shuang (1); Lin, Pengrong (2,3); Zhang, Donglin (1); Wang, Taiyu (1); Liu, Sichen (1); Xie, Xiaochen (2); Xu, Shimeng (2); Qu, Zhibo (2); Wang, Yong (2); Zhao, Xiuchen (1); Huo, Yongjun (1,4) Beijing Institute of Technology, China (1)	E4.1 (P1121) Analytical K-factor Model for Monotonic Four-point Bend Test Design Kelly, Brian (1); Tamovetchi, Marius (2); Newman, Keith (1) AMD, USA (1); Vitesco, Romania (2)	E5.1 (P1164) Non-Destructive Analysis of Voiding in TIM of High-Performance Computing Devices using B-mode Scanning Song, Mei Hui; Tang, Wai Kit; Tan, Li Yi AMD, Singapore	E6.1 (P1207) Adaptive Pad Stacks Deliver Order of Magnitude Increase in Bridge Die Position Tolerance in Embedded Fan-out Interposers Sandstrom, Clifford Paul (1); Talain, John Erickson Apeloado (1); San Jose, Benedict Arcena (1); Fang, Jen-Kuang (2); Yang, Ping-Feng (2); Huang, Sheng-Feng (2); Shen, Ping-Ching (2) Deca Technologies, USA (1); ASE Global (2)
9:20am - 9:40am	E1.2 (P1172) Enhancing DI Water Cleanability of Tacky Flux on Cu OSP Surface Using FC Copper Pillar High-Density Interconnection Lip Hwei, Yam; Risson Olakkankal, Edrina; Balasubramanian, Senthil Kumar Heraeus Materials Singapore	E2.2 (P1384) Hyperspectral Component Fabrication on 200mm CMOS Image Sensor Wafer Babu Shylaja, Tina; Yoo, Tae Jin; Geelen, Bert; Tack, Klaas; Sabuncuoglu Tezcan, Deniz IMEC, Belgium	E3.2 (P1206) Versatile Photosensitive Polymer Applied in Low-Temperature Hybrid Bonding with Nanocrystalline Cu Tan, Chung-An (1); Lee, Chia-Hsin (1); Lee, Ou-Hsiang (2); Chiu, Wei-Lan (2); Chang, Hsiang-Hung (2); Yu, Shih-cheng (2) Brewer Science, Taiwan (1); ITRI Taiwan (2)	E4.2 (P1135) Enhancing Mechanical Robustness and Integrity of a Large Advanced Package with Embedded FP Interconnect Chips Ji, Lin; Chai, Tai Chong STMicroelectronics, Singapore	E5.2 (P1361) A Method for Die-level Fracture Toughness Evaluation by Nano-indentation on Ring Zhu, Xintong; Rajoo, Ranjan; Nistala, Ramesh Rao; Mo, Zhi Qiang Globalfoundries, Singapore	E6.2 (P1119) Silicon Interposer Heterogenous Integration Platform for Millimeter Wave Ka and V band Satellite Applications Sun, Mei; Ong, Javier Jun Wei; Wu, Jia Qi; Lim, Sharon Pei Siang; Ye, Yong Liang; Umralkar, Ratan Bhimrao; Lau, Boon Long; Lim, Teck Guan; Chai, Kevin Tshun Chuan Institute of Microelectronics, Singapore
9:40am - 10:00am	E1.3 (P1326) Film Assisted Molding Performance Improvement with Component Design Law, Hong Cheng; Lim, Fui Yee; Low, Boon Yew; Pang, Zi Jian; Bharatham, Logendran; Yusof, Azaharudin; Ismail, Rima Syafida; Lim, Denyse Shyn Yee; Lim, Shea Hui NXP, Malaysia	E2.3 (P1390) Characterization of Carbon Contained Films at Bonding Interface for the Application of Backside Power Delivery Networks Kitagawa, Hayato; Sato, Ryoosuke; Fuse, Junrya; Yoshihara, Yuki; Inoue, Fumihito Yokohama National University, Japan	E3.3 (P1286) Low temperature Ag sintering and driving force on Au finished Cu substrates at 145°C and 175°C using Ag nano-porous sheets without organic solvents Kim, YehRi (1,2); Yu, Haiyoung (1); Noh, Seungjun (3); Kim, Dongjin (1) Korea Institute of Industrial Technology (1)	E4.3 (P1116) Study on Substrate Copper Pad Crack Through Experiment and Simulation Yu, Wei; Che, Fa Xing; Ong, Yeow Chon; Pan, Ling; Cheong, Wee Gee Micron Semiconductor Asia Operations, Singapore	E5.3 (P1140) Electrostatically induced voltage generated in different type boxes of electronic equipment by moving charged object Ichikawa, Norimitsu Kogakuin University, Japan	E6.3 (P1138) Development of Large RDL Interposer Package: RDL-first FOWLP and 2.5D FO-Interposer Ho, Soon Wee David; Soh, Siew Boon; Lau, Boon Long; Hsiang, Hsiang-Yao; Lim, Pei Siang; Rao, Vempati Srinivasa Institute of Microelectronics, Singapore
10:00am - 10:20am	E1.4 (P1224) An Investigation of Different Leadframe Materials with Plasma Cleaning on Extra-Large Leadframe to Study the Effects of Oxidation vs Delamination CHUA, Yeechong; CHUA, Boowe; LEONE, Federico; LOO, Shei Meng STMicroelectronics, Singapore	E2.4 (P1376) Screen Printed Temperature Sensor using Novel Kish Graphite/reduced Graphene Oxide Conductive Ink for Wearable Applications. Rao, Aniktha (1); Bhat, Somashekara (1); De, Shounak (1); Shetty K, Nakul (1); Nayak, Ramakrishna (2) Manipal Institute of Technology, India (1)	E3.4 (P1346) Exploring Direct Laser Reflow Techniques for Forming Stable and Reliable Solder Bump Interfaces on Semiconductor Substrates Fettko, Matthias; Fisch, Anne; Teutsch, Thorsten PacTech, Germany	E4.4 (P1130) Predictive Numerical Modeling of Stealth Dicing Process for Different Wafer Pre-Thin Thicknesses Lim, Dao Kun (1,2); Vempaty, Venkata Rama Satya Pradeep (2); Shah, Ankur Harish (2); Sim, Wen How (2); Singh, Harjashan Veer (2); Lim, Yeow Kheng (1) Micron Technology, Singapore (1); NUS Singapore (2)	E5.4 (P1350) High spatial resolution imaging of dopants and impurities for semiconductor device using NanoSIMS Sameshima, Junichiro; Nakata, Yoshitoko; Akahori, Seishi; Hashimoto, Hideki; Yoshikawa, Masanobu Toray Research Center, Inc, Japan	E6.4 (P1209) Modeling and Fabrication of Silicon Integrated Multi-terminal Deep Trench Capacitor Technology Lin, Weida (1); Song, Changming (2); Shao, Ziyuan (3); Ma, Haiyan (2); Cai, Jian (2,4); Gao, Yuan (1); Wang, Qian (2,4) Tsinghua University, China (1)
10:20am - 10:35am	Tea Break & Exhibition (Waterfront BallRoom Foyer)					
10:35am - 11:55am	F1. Automotive and Power Device Packages	F2. Quality, Reliability & Failure Analysis 2	F3. Materials and Processing 4	F4. Advanced Optoelectronics	F5. Electrical Simulations & Characterization 3	F6. Thermal Management and Characterization 4
10:35am - 10:55am	F1.1 (P1234) A Highly Integrated AiP Design for 6G Application WU, PO-I; Kuo, Hung-Chun; Zhong, Ming-Fong; Wang, Chen-Chao ASE Group, Taiwan	F2.1 (P1184) Optimization of Aluminium Wirebonding on Niobium for Cryogenic Packaging Norhanani Jaafar Institute of Microelectronics, Singapore	F3.1 (P1254) Study of Interactions between RDL Polyimides and Underfills on Reliability of Flip-Chip Interconnects in Thermal Cycling Chang, Hongda (1); Soriano, Catherine (1); Chen, WenHsuan (1); Yang, HungChun (2); Lai, WeiHong (2); Chaware, Raghunandan (1) Lattice Semiconductor Corp, Taiwan; ASE Global (2)	F4.1 (P1252) Aerosol Jet Printed Encapsulation for Optoelectronics: A Study of Line Morphology Siah, Kok Siong (1); Basu, Robin (2); Distler, Andreas (2); Häußler, Felix (1); Franke, Jörg (1); Brabec, Christoph J. (2,3,4); Egelhaaf, Hans-Joachim (2,3,4) Friedrich-Alexander Universität Erlangen Nürnberg, Germany (1)	F5.1 (P1201) Effect of Decoupling Capacitor Location on PDN Impedance in fCUGA Packages Song, Xiaoyuan (1); Zheng, Boyu (1,2); Luo, Jiahui (1); Wei, Ping (1); Liu, Lei (1) Changsha Annuquan, China (1)	F6.1 (P1258) Thermal Characterization of LED Packages Covered with Wavelength Converting Phosphor Over a Large Area Hantos, Gusztáv; Hegedűs, János; Lipák, Gyula; Németh, Márton;Poppe, András Budapest University of Technology and Economics
10:55am - 11:15am	F1.2 (P1298) Packaging-Codesign for the development of a high-resolution MIMO-Radar-Module for Automated guided vehicles Tschoban, Christian; Pötter, Harald Fraunhofer IZM, Germany	F2.2 (P1182) In-Situ Microcrack Localization and Imaging in Laminated Die-Attachment Based on the Static Component of Ultrasonic Lamb Waves Long, Xu (1); Li, Yaxi (2); Wang, Jishuo (3); Zhao, Liang (3); Yuan, Weifeng (3) Northwestern Polytechnical University, China	F3.1 (P1179)An Innovative Flux-Less Solder Ball Attachment Technology (FLAT) for Advanced BGA Assembly Kim, Dongjin (1); Han, Seonghui (1,3); Han, Sang Eun (1,4); Choi, Dong-Gyu (1,5); Chung, Kwansik (2); Kim, Eunhae (2); Yoo, Sehoon (1) Korea Institute of Industrial Technology (1)	F4.2 (P1341) Quantum Cascade Laser Integration with Mid-Infrared Photonic Integrated Circuits for Diverse Sensing Applications Kannoja, Harindra Kumar (1); Zhai, Tingting (1); Maulini, Richard (2); Gachet, David (2); Kuyken, Bart (1); Van Steenberge, Geert (1) IMEC, Belgium (1)	F5.4 (P1200) A Novel Approach to Reduce Impedance Discontinuities for High-speed Channel in IC Packages Luo, Jiahui (1); zheng, Boyu (1,2); Song, Xiaoyuan (1); Jiang, Bo (1); Lee, SooLim (1) Changsha Annuquan, China	F6.2 (P1289) Numerical Optimization of PCM-Based Heat Sink for Thermal Management of High-power-density Electronics HU, RAN (1,2); Du, Jiayu (2); Shi, Shangyang (1,2); Lv, Peijue (1,2); Cao, Huiquan (2); Jin, Yuleng (1,2); Zhang, Chi (2,3,4); Wang, Wei (2,3,4) Peking University, China
11:15am - 11:35am	F1.3 (P1306) Robustness Methodology for Next Generation Automotive Microcontroller Flip Chip Copper Pillar Technologies Tan, Aik Chong; Bauer, Robert; Rau, Ingolf; Doering, Inga Infineon Technologies, Singapore	F2.3 (P1122) BLR Drop Test Study for FCCSP Package with OSP/Cu Solder Pad finish Liu, Jimmei NXP Semiconductor Company, China	F3.3 (P1281) Elimination of Parametric Shifts in Trench MOSFETs Using Low Alpha-Particle Solder Gajda, Mark A. (1); de Leon, Charles Daniel T. (2); A/P Ramalingam, Vegneswary (3); Santican, Haima (3) Nexperia, United Kingdom	F4.3 (P1328) III-V Laser Diode Flip Chip Bonding on Photonics Integrated Circuit with SnAg Solder Chi, Ting Ta (1); Ser Choong, Chong (1); Lee, Wen (1); Yuan, Xiaojun (2) Institute of Microelectronics, Singapore (1); LIINKSTAR (2)	F5.3 (P1304) Full-Wave Electromagnetic Simulation Approach for Integrated 3D-IC Design Jaiswal, Anushruti; Patil, Tejikiran; Dhankula, Mahesh Babu Ansys, India	F6.3 (P1289) Heat-Resistant Reliability of Large Area Silver Microporous Connections for Direct Cooling in Power Inverter Applications Yu, HaYoung; Kim, Seoh; Kim, Dongjin Korea Institute of Industrial Technology
11:35am - 11:55pm	F1.4 (P1387) Bond Strength Comparison of Commercial and Custom Copper Sinter Pastes under Sinter Process Modifications Meyer, Meyer; Gierth, Karl Felix Wendelin;Meier, Karsten; Bock, Kartheinz Technische Universität Dresden, Germany	F2.4 (P1236) Influence of Material Composition on Copper-aluminum Wire Bonding Reliability Carluccio, Roberta (1); Caglio, Carolina (1); Alesi, Mirko (1); Mancaloni, Alberto (1); Villa, Riccardo (1); Serafini, Andrea (1); Dellasega, David (2) STMicroelectronics, Italy (1)	F3.4 (P1218) Effects of Bi contents in Sn-SAg lead-free solders on mechanical properties and morphology of IMC Liu, Kuan Cheng; Li, Chuan Sheng; Teng, Wen Yu; Hung, Liang Yih; Wang, Yu Po Siliconware Precision Industries Co., Ltd., Taiwan	F4.4 (P1128) Generation of Beam Profiles from Chip-to-Free-Space Coupling using Deep Neural Network Lim, Yu Dian (1); Tan, Chuan Seng (1,2) Nanyang Technological University, Singapore (1)	F5.2 (P1162) Discussion on the Electrical Characteristics of Tera-Hz in Organic Substrate Lin, Ho-Chuan; Lai, Chia-Chu; Shih, Teny; Kang, Andrew; Wang, Yu-Po Siliconware Precision Industries Co., Ltd., Taiwan	F6.4 (P1199) A Study on Thermal Performance Enhancement for Multi-chip Power μ Modules Dai, Qiaobo (1); Liu, Zhen (1); Liao, Linjie (2); Zheng, Boyu (1,3); Liu, Zheng (1); Yuan, Sheng (1) Changsha Annuquan, China (1)
11:55am - 12:55pm	Young Professionals' Event		Lunch @ WaferFront Foyer (Level 2); publicity presentations by the partner conferences			

DAY 4: December 6, 2024 (Friday PM)
Exhibition at Waterfront Foyer from 9:00am to 4:30pm (Level 2)

Venue	Waterfront I	Waterfront II	Waterfront III	Riverfront I	Riverfront II	Riverfront III
12:55pm - 2:15pm	G1. Bonding & Debonding Processes	G2. Wafer Processing and Characterization 2	G3. Materials and Processing 5	G4. Smart Manufacturing, Equipment & Tooling Co-Design	G5. TSV and Wafer Level Packaging 3	G6. Embedded and Fan-Out Packaging
12:55pm - 01:15pm	G1.1 (P1380) High-temp-stable temporary bond adhesive for IR laser debonding enables new process integration for thin wafers <i>Koch, Matthew (1); kumar, Amit (1); Brandl, Elisabeth (2); Bravin, Julian (2); Urban, Peter (2); Geier, Roman (3); Siegert, Joerg (3)</i> Brewer Science, United Kingdom (1)	G2.1 (P1411) Patterning of 1µm Critical Dimension Through Silicon Via using Positive Tone Resist Mask by a Photolithography Stepper <i>Sundaram, Arvind (1); Kang, Riley (2); Bhesetti, Chandra Rao (1)</i> Institute of Microelectronics, Singapore (1)	G3.1 (P1198) Influence of Flow Rate and Current Density on Copper Deposition in Through Hole <i>Zeng, Barry; Ye, Rick; Pai, Yu-Cheng; Wang, Yu-Po</i> Siliconware Precision Industries Co., Ltd., Taiwan	G4.1 (P1309) Exploring Diffusion Model for Semiconductor Defect Detection <i>Lu, Kangkang; Cai, Lile; XU, Xun; Pahwa, Ramanpreet; Wang, Jie; Chang, Richard; Foo, Chuan-Sheng</i> Institute for Infocomm Research, Singapore	G5.1 (P1180) Optimization of High Aspect Ratio Copper Pillar Fabrication for Through Mold Interposer (TMI) Processing <i>Peh, Cun Jue; Lau, Boon Long; Chia, Lai Yee; Ho, Soon Wee.</i> Institute of Microelectronics, Singapore	G6.1 (P1202) Integration Module of Dual MOSFET Switching Circuit Using Embedded Silicon Fan-Out (eSiFO®) Technology <i>Qiang, Wenbin; Zhang, Xiangou; Sun, Xiangyu; Deng, Shuairong; Yang, Zhenzhong</i> Microsystem and Terahertz Research Center, China
01:15pm - 01:35pm	G1.2 (P1250) Delamination of Temporary Bonded Wafers: A Comprehensive Study <i>Jedidi, Nader</i> IMEC, Belgium	G2.2 (P1410) Niobium- last Process for Multi-foundry-compatible Wafer Level Processing of Superconducting Interposers <i>Goh, Simon Chun Kiat; Ng, Yong Chyn; Ong, Javier Jun Wei; Lau, Daniel; Tseng, Ya-Ching; Jaafar, Norhanani; Yoo, Jae Ok; Liu, Liyuan; Teo, Everline Shu Yun; Chua, Nicholas Boon Leong; Li, Hongyu</i> Institute of Microelectronics, Singapore	G3.2 (P1156) Routable Wettable Flanks for MEMS devices <i>Shaw, Mark; Gritti, Alex; Ratti, Andrea; Wong, Kim-Sing; Loh, Hung-meng; Casati, Alessandra; Antilano Jr, Ernesto; Soreda, Alvin</i> STMicroelectronics, Italy	G4.2 (P1287) End-to-end Fast Segmentation Framework for 3D Visual Inspection of HBMs <i>Wang, Jie (1); Chang, Richard (1); Lim, Meng Keong (2); Chong, Ser Choong (2); Yang, Xulei (1); Pahwa, Ramanpreet Singh (1)</i> Institute for Infocomm Research, Singapore (1)	G5.2 (P1405) Splitting Process Integration for 2.5D/3D Packaging <i>Li, Hongyu (1); Vasarla Nagendra, Sekhar (1); Schwarzenbach, Walter (2); Besnard, Guillaume (2); Lim, Sharon (1); BEN MOHAMED, Nadia (2); Nguyen, Bich-Yen (2)</i> Institute of Microelectronics, Singapore	G6.2 (P1268) Corrosion behavior of aluminum pads in Fan-Out Panel Level Packaging (FOPLP) <i>Yu, Yeonseop; Park, Seyoon; Kim, Miyang; Moon, Taeho</i> Samsung Electronics, South Korea
01:35pm - 01:55pm	G1.3 (P1192) Surface Quality Challenges Associated with Temp Bonding and Debonding for Chip Stacking Applications <i>Chaki Roy, Sangita; Vasarla, Nagendra Sekhar; Venkataraman, Nandini</i> Institute of Microelectronics, Singapore	G2.3 (P1331) A New D2W Bonding Alignment Scheme using Magnetic and Capillary assisted Self-alignment <i>Choi, Daesan (1); Kim, Sunin (2); Hahn, Seung Ho (1); Moon, Bumki (1); Rhee, Daniel Minwoo (1)</i> Samsung Electronics, South Korea	G3.3 (P1183) Understanding and Improving Rc Management for Wafer Level Packaging through Novel PVD Processing <i>Barker, Anthony James; Haymore, Scott; Wilby, Tony; Rastogi, Amit; Moncrieff, Ian; Jones, Steve; Joanne Chuan Sun</i> KLA-Tencor, United Kindom	G4.3 (P1375) Ultra-thin ta-C Hermetic Seals for Electronics Packaging <i>Phua, Eric Jian Rong; Lim, Song Kiat Jacob; Tan, Yik Kai; Shi, Xu</i> Nanofilm Technologies, Singapore	G5.3 (P1285) Fabrication of Through Alumina Vias: A Cost-effective Alternative Approach Using Ultrasonic Machining and Electroless Deposition <i>Pawar, Karan; Pandey, Harsh; Dixit, Pradeep</i> Indian Institute of Technology Bombay	G6.3 (P1123) Comparison of Electrical, Thermal, and Mechanical Performances of a fcBGA with that of a Fan-Out SiPlet Package <i>Ouyang, Eric; Ahn, Billy; Han, B.J; Han, Michael; Kang, Chen; Oh, Michael</i> Silicon Box
01:55pm - 02:15pm	P1142. Investigating overlay control towards 2.5/3D system integration in backend lithography processes <i>Huang, Chia-Ching (1); Lee, Yutai (1); Lee, Yuan-Chang (2); van der Krieken, Peter (1); Chang, Liang-Chuan (2); de Boei, Jeroen (1); MISAT, Sylvain Irene (1); Chang, Hsiang-Hung (2); van der Stam, Michiel (1)</i> Onto Innovation, Taiwan (1)	G2.4 (P1233) Novel Wet-Chemical Processing for Sidewall Plating of High Reliability Bottom-Terminated Packages <i>Hovestad, Arjan (1); Basu, Tarun (2)</i> Besi, The Netherland	G3.4 (P1240) Dielectric Breakdown of in-Package Epoxy Mold Compound under Wet and Dry Conditions: Frequency and Temperature dependence <i>Balestra, Luigi (1); Riaz, Muhammad Tanveer (1); Giuliano, Federico (1); Cavallini, Andrea (1); Reggiani, Susanna (1); Oldani, Luca (2); Guarnera, Simone Salvatore (2); Rossetti, Mattia (2); Depetro, Riccardo (2)</i> University of Bologna, Italy (1), STMicroelectronics (2)	G4.4 (P12510) Semiconductor MEMS Waferbond Defect Detection: The Industrial Application of ResNets <i>Stoll, Fiote; Dubej, Vikas; Wunsch, Dirk; Roscher, Frank; Wiemer, Maik</i> ENAS Fraunhofer, Germany	G5.4 (P1109) Electrical Characterization and Reliability Studies of TSI with 5-layer Frontside Cu and 2-layer Backside Cu RDL <i>Tseng, Ya-Ching; Lau, Daniel; Ming, Calvin Chua Hung; Li, Hongyu</i> Institute of Microelectronics, Singapore	G6.4 (P1228) Fan-Out Packaging without Warpage <i>Schindler, Markus; Ringelstetter, Severin; Bues, Martin; Kreul, Kilian; Chian, Lim See; Königler, Tobias</i> Delo, Germany
2:15pm - 2:30pm	Tea Break & Exhibition (Grand Ballroom Foyer)					
2:30pm - 3:30pm		H2. Quality, Reliability & Failure Analysis 3	H3. Materials and Processing 6	H4. Mechanical Simulation & Characterization 4	H5 Advanced Chip and Package Designs	H6. Flip Chip and Fan-Out on Substrate
2:30pm - 2:50pm		H2.1 (P1362) Lifetime Modelling Strategy for Multilayer Ceramic Capacitors by HALT test <i>Yang, Yongbo; Yong, Eric; Qiu, Wen</i> AMD, Singapore	H3.1 (P1279) Stress compensation effect in AlN/MoAlN/Polysilicon stack for MEMS application <i>Sharma, Jaibir; Qing Xin, Zhang</i> Institute of Microelectronics, Singapore	H4.1 (P1197) Dynamic Response of Interconnects in Board-level Packaging Structure at Extremely High Strain Rates <i>Long, Xu (1); Hu, Yuntao (2); Shi, Hongbin (3); Su, Yutai (2)</i> Northwestern Polytechnical University, China (1)	H5.1 (P1320) Process Development of Twin 2 Die Stack Modules for Deep Learning Hardware Accelerator <i>Ser Choong Chong</i> Institute of Microelectronics, Singapore	H6.1 (P1235) Fine-line RDL Structure Analysis of Fan-Out Chip-on-Substrate Platform <i>Lai, Chung-Hung</i> ASE Group, Taiwan
2:50pm - 3:10pm		H2.2 (P1257) Innovative Cu-Selective Passivation Coatings for Enhanced Reliability in Cu Interconnects for IC Packaging <i>Antony Jesu Durai, Kevin (1); Kumaravel, Dinesh Kumar (1); Muralidharan Nair, Shyam (1); Tran, Khanh (1); Chyan, Oliver (1); Poliah, Ramarao (2); Zhi Chan, Mei (3); Mathew, Varughese (4)</i> Univerity of North Texas, USA (1)	H3.2 (P1154) Die Attach Material Choice for MEMS Cavity Packages <i>Shaw, Mark; Simoncini, Daniele; Duca, Roseanne; Falorni, Luca; Carrulli, Paola; Fedeli, Patrick; Brignoli, Davide</i> STMicroelectronics, Italy	H4.2 (P1242) Determination of the Adhesive Strength of Monocrystalline Layers as a Thin Film on a Silicon Substrate by Means of Instrumented Indentation Testing <i>Albrecht, Jan; Rzepka, Sven</i> ENAS Fraunhofer, Germany (1)	H5.2 (P1398) Thermal Test Vehicles for Characterization of Thermal Performance of AI Chips <i>Shangguan, Dongkai (1); Yang, Cheng (2); Hang, Yin (3)</i> Thermal Engineering Associates (1), JCET Group (2)	H6.2 (P1131) The FOSTrip® technique - a low-cost solution for the strip level fan-out on substrate package <i>Lin, I-Hung (1); Shih, Meng-Kai (2); Ding, Bo-Rui (2); Lou, Bai-Yao (1); Ni, Tom (1)</i> Kore Semiconductor Co., Ltd., Taiwan (1); National Sun Yat-sen University (2)
3:10pm - 3:30pm		H2.3 (P1370) Embedded Defect Depth Estimation using NIR Model-less TSM <i>Lee, Jun Ho (1); Joo, Ji Yong (1); Lee, Jun Sung (1); Kim, Se Jeong (1); Kwon, Oh-Hyung (2)</i> Kongju National University, South Korea	H3.3 (P1173) Enhancing Device Performance through Non-Pressure Sintering on Copper Lead frames <i>Danila, Bayaras; Abito; Balasubramanian, Senthil Kumar</i> Heraeus Materials Singapore	H4.3 (P1407) Electromigration Study of Cu Pillar Bumps Using Experimental and Numerical Methods <i>Zhao, Facheng; Zhu, Liping; Yeo, Alfred</i> STATS ChipPAC Singapore	H5.3 (P1261) Cost-Performance Co-Optimization for the Chiplet Era <i>Graening, Alexander Phillip (1); Patel, Darayus Adil (2); Sisto, Giuliano (2); Lenormand, Erwan (2); Perumkunnil, Manu (2); Pantano, Nicolas (2); Kumar, Vinay B. Y. (2); Gupta, Puneet (1); Malik, Arindam (2)</i> UCLA, USA (1)	H6.3 (P1327) Semiconductor Chip and Package Co-Design and Assembly for Dual Use in FC and WB BGA <i>Rongrong Jiang; Trent Uehling, Bihua He; Tingdong Zhou; Meijiang Song; Azham Mohdsukemi; Taki Fang, Roy Lo; Kaelin Wang</i> NXP Semiconductor Company, China
3:30pm - 4:30pm	Interactive Poster Presentation III / Exhibitions / Coffee Break @ Waterfront foyer					
4:30pm - 5:00pm	Closing Ceremony @ WaferFront Foyer					
Complete our online survey for a chance to enter our exciting lucky draw! Many fantastic prizes are up for grabs, including the grand prize of an iPhone 16 Plus!						

Session Chair for Oral Presentation by Day and Track

Date	Time Start	Time End	Tracks	Room	Session Chair
12/05/2024	09:00 AM	10:30 AM	A1. Hybrid and Fusion Bonding 1	Veranda I	Dr Yong-Fen Hsieh, MA-Tek
12/05/2024	09:00 AM	10:30 AM	A2. Wafer Processing and Characterization	Veranda II	Dr Suresh Singaram, Evactec
12/05/2024	09:00 AM	10:30 AM	A3. Emerging Technologies	Veranda III	Prof Kanaya Haruichi, Kyushu University
12/05/2024	09:00 AM	10:30 AM	A4. Advanced Packaging 1	RiverFront I	Dr Wang Yu-Po, Siliconware Precision Industries Co., Ltd
12/05/2024	09:00 AM	10:30 AM	A5. TSV & Wafer Level Packaging 1	RiverFront II	Albert Lan, Applied Materials
12/05/2024	09:00 AM	10:30 AM	A6. Thermal Management and Characterization 1	RiverFront III	Prof Fushinobu Kazuyoshi, Tokyo Institute of Technology
12/05/2024	10:45 AM	11:45 AM	B1. Hybrid and Fusion Bonding 2	Veranda I	Dr James Papanu, Tokyo Electron Limited
12/05/2024	10:45 AM	11:45 AM	B2. Interconnection Technologies 1	Veranda II	Dr Yang Cheng, JCET
12/05/2024	10:45 AM	11:45 AM	B3. Thermal Interface Materials	Veranda III	Senthil Kumar, Heraeus
12/05/2024	10:45 AM	11:45 AM	B4. Advanced Packaging 2	RiverFront I	Dr Torseten Wipiejewski, Huawei
12/05/2024	10:45 AM	11:45 AM	B5. Assembly and Manufacturing Technology 1	RiverFront II	Jing-En Luan, STMicroelectronics Singapore
12/05/2024	10:45 AM	11:45 AM	B6. Thermal Management and Characterization 2	RiverFront III	Hardik Kabaria, Vinci4D
12/05/2024	1:00 PM	2:00 PM	C1. Electrical Simulations & Characterization 1	Veranda I	Prof Masahiro Aoyagi, Kumamoto University
12/05/2024	1:00 PM	2:00 PM	C2. Wireless and Antenna Package Designs	Veranda II	Chia Chu Lai, Siliconware Precision Industries Co., Ltd
12/05/2024	1:00 PM	2:00 PM	C3. Materials and Processing 1	Veranda III	Takenori Fujiwara, Toray
12/05/2024	1:00 PM	2:00 PM	C4. Mechanical Simulation & Characterization 1	RiverFront I	Dr Che Faxing, Micron
12/05/2024	1:00 PM	2:00 PM	C5. TSV and Wafer Level Packaging 2	RiverFront II	Chew Soon Aik, imec
12/05/2024	1:00 PM	2:00 PM	C6. Thermal Management and Characterization 3	RiverFront III	Dr Winston Zhang, Novark Technologies
12/05/2024	2:00 PM	3:20 PM	D1. Electrical Simulations & Characterization 2	Veranda I	Mihai Dragos Rotaru, IME Singapore
12/05/2024	2:00 PM	3:20 PM	D2. Interconnection Technologies 2	Veranda II	Prof Seungbae Park, Binghamton University
12/05/2024	2:00 PM	3:20 PM	D3. Materials and Processing 2	Veranda III	SS Kang, Heraeus Singapore
12/05/2024	2:00 PM	3:20 PM	D4. Mechanical Simulation & Characterization 2	RiverFront I	Prof Chiang Kuo Ning, National Tsing Hua University
12/06/2024	09:00 AM	10:20 AM	E1. Assembly and Manufacturing Technology 2	Waterfront I	Mark Shaw, STMicroelectronics Italy
12/06/2024	09:00 AM	10:20 AM	E2. Wafer Processing and Characterization 2	Waterfront II	Dr Toh Chin Hock, Apple
12/06/2024	09:00 AM	10:20 AM	E3. Materials and Processing 3	Waterfront III	Prof Kim Sungdong, Seoul National University of Science
12/06/2024	09:00 AM	10:20 AM	E4. Mechanical Simulation & Characterization 3	RiverFront I	Sasi Kumar Tippabhotla, IME, Singapore
12/06/2024	09:00 AM	10:20 AM	E5. Quality, Reliability & Failure Analysis 1	RiverFront II	Prof Jeff Suhling, Auburn University
12/06/2024	09:00 AM	10:20 AM	E6. Silicon Interposer and Processing	RiverFront III	Dr Prayudi Lianto, Applied Materials
12/06/2024	10:35 AM	11:55 AM	F1. Automotive and Power Device Packages	Waterfront I	Dr Tang Gongyue, IME Singapore
12/06/2024	10:35 AM	11:55 AM	F2. Quality, Reliability & Failure Analysis 2	Waterfront II	Xue Ming, Infineon
12/06/2024	10:35 AM	11:55 AM	F3. Materials and Processing 4	Waterfront III	Dr Alvin Lee, Brewer Science
12/06/2024	10:35 AM	11:55 AM	F4. Advanced Optoelectronics	RiverFront I	Vasarla Nagendra Sekhar, IME, Singapore
12/06/2024	10:35 AM	11:55 AM	F5. Electrical Simulations & Characterization 3	RiverFront II	Prof Bruce Kim, City University of New York
12/06/2024	10:35 AM	11:55 AM	F6. Thermal Management and Characterization 4	RiverFront III	Dr Refai-Ahmed Gamal, AMD
12/06/2024	12:55 PM	02:15 PM	G1. Bonding & Debonding Processes	Waterfront I	Dr Viorel Dragoi, EV Group
12/06/2024	12:55 PM	02:15 PM	G2. Wafer Processing and Characterization 3	Waterfront II	Clifford Sandstrom, Deca Technologies
12/06/2024	12:55 PM	02:15 PM	G3. Materials and Processing 5	Waterfront III	Dr Alvin Lee, Brewer Science
12/06/2024	12:55 PM	02:15 PM	G4. Smart Manufacturing, Equipment & Tooling Co-Design	RiverFront I	Dangayach Sachin, Applied Materials
12/06/2024	12:55 PM	02:15 PM	G5. TSV & Wafer Level Packaging 3	RiverFront II	Vempati Srinivasa Rao, IME
12/06/2024	12:55 PM	02:15 PM	G6. Embedded and Fan-Out Packaging	RiverFront III	Dr Masahisa Fujino, IME Singapore
12/06/2024	2:30 PM	3:30 PM	H2. Quality, Reliability & Failure Analysis 3	Waterfront II	David Gani, STMicroelectronics Singapore
12/06/2024	2:30 PM	3:30 PM	H3. Materials and Processing 6	Waterfront III	Hemanth Kumar Cheemalamarri, IME Singapore
12/06/2024	2:30 PM	3:30 PM	H4. Mechanical Simulation & Characterization 4	RiverFront I	Rathin Mandal, IME Singapore
12/06/2024	2:30 PM	3:30 PM	H5. Advanced Chip and Package Designs	RiverFront II	Dr Kelly Brian, AMD
12/06/2024	2:30 PM	3:30 PM	H6. Flip Chip and Fan-out on Substrate	RiverFront III	Lee Chee Ping, Lam Research