OCTOBER 8, 2024

8:00 AM - 9:30 AM Pacific Time (US & Canada)

Plenary Talk - OUSD IBAS RESHAPE Project

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Tuesday, October 8, 2024, 8:00 AM - 9:30 AM

Session Chairs: Pradeep Lall

Room: California Ballroom, Salons GJHF

View Track/Session

Plenary Talk: The Use of Additive Hybrid Electronics as a Key Element in the National Strategy

for Advanced Packaging

Add to Google | Outlook | iCalendar Tuesday, October 8, 2024, 8:00 AM - 9:30 AM

Session Chairs: Pradeep Lall

Room: California Ballroom, Salons GJHF

9:30 AM - 10:45 AM (Pacific Time (US & Canada))

02-01: Data Centers and Modular Edge Systems - I

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Tuesday, October 8, 2024, 9:30 AM - 10:45 AM

Session Chairs: Jiu Xu

Room: California Ballroom, Salon B

View Track/Session

02-01: Data Centers and Modular Edge Systems -I	Exploring the Impact of CRAH Unit Partial	Ahmad R.	Binghamton
	Failure in Hybrid-Cooled Data Centers	Gharaibeh	university
		Lochan Sai	University of
	Bio-Analysis of Cross-Mixed Coolants in	Reddy	Texas at
	High Powered Liquid Cooled Data Center	Chinthaparthy	Arlington
	Liquid to Liquid In-Row Coolant Distribution		The University of
	Unit Characterization for High Power Data	Himanshu	Texas at
	Center	Modi	Arlington

03-01: Electronics Packaging - Electrical Design

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Tuesday, October 8, 2024, 9:30 AM - 10:45 AM Session Chairs: Jinesh Narangaparambil, Varun Soman

Room: California Ballroom, Salon C

View Track/Session

	Topology Optimization of Electronic Line Using		Hirosaki
	Computer Aided Engineering Software	Kotaro Miura	University
			Siliconware
			Precision
	The Key Factors for Impedance Control in	Ho-Chuan	Industries
03-01: Electronics	Embedded Trace Substrates	Lin	Co.,Ltd.
Packaging - Electrical	Advanced Thermal Aware Mobile SoC Floorplan		
Design	Design Optimization by Integrating Proactive		
	Design Rule Check Process and Evolutionary	Myunghoon	
	Algorithms	Lee	Ansys
	Enabling Reduced Footprint SMT Components in		Qualcomm
	IC Packages: A Simulation-Based Approach for	Nidheesh	Technologies
	Solder Paste Volume Optimization	Puliyath	Inc.

07-01: Transportation Systems, AI and Machine Learning

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Tuesday, October 8, 2024, 9:30 AM - 10:45 AM Session Chairs: Tony Thomas, Shriram Kulkarni

Room: California Ballroom, Salon K

View Track/Session

07-01: Transportation	Predictive Machine Learning Models for LiDAR Sensor Reliability in Autonomous Vehicles	Saba Farahani	University of California, Irvine
Systems, AI and Machine Learning -I	Nusselt-Constrained Physics-Driven Learning for Condensation Heat Transfer in Non- Condensable Gas	Haeun Lee	Chung-Ang University

Workshop: Reliability Evaluation of Additively Manufactured Flexible and Stretchable Electronics

- Experiments, Models, and Applications

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Tuesday, October 8, 2024, 9:30 AM - 10:45 AM **Session Chairs:** Victor Chiriac, Raffaele Luca Amalfi

Room: California Ballroom, Salon A

11:00 AM - 12:15 PM ((UTC-04:00) Eastern Time (US & Canada))

03-02: Electronics Packaging - Components

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Tuesday, October 8, 2024, 11:00 AM - 12:15 PM

Session Chairs: Kamalendu Ghosh, Jinesh Narangaparambil

Room: California Ballroom, Salon C

View Track/Session

	Fabrication and Passive Assembly of Compact,		Massachusetts
	Broadband Substrate-To-Die Evanescent Couplers for	Drew	Institute of
02 02. Electronica	Sustainable Pbps Co-Packaged Optics	Weninger	Technology
03-02: Electronics Packaging - Components	Comparing Wire Bonding Strategies for High Power	Whit	University of
	Applications	Vinson	Arkansas
	State of Health Estimation Model Development for Li-		
	Ion Battery Lifetime Considering Calendar Aging and		Auburn
	Post-Knee Degradation	Ved Soni	University

04-01: Power/RF Electronics and Photonics

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Tuesday, October 8, 2024, 11:00 AM - 12:15 PM

Session Chairs: Georges Pavlidis Room: California Ballroom, Salon L

View Track/Session

	Thermophysical Property Measurement of GaN-on-AIN	Husam	Pennsylvania
	Wafers for Next-Generation RF Device Technologies	Walwil	State University
	A Numerical Study on Die-Integrated Manifold		
	Microchannel Heat Sinks Considering Transistor-Level	Orcun	
04-01: Power/RF	Heat Dissipation of GaN Based MMIC Devices	Yildiz	Aselsan Inc.
Electronics and	Standardized Approach for Assessing Fiber Device	Conor	MIT Lincoln
Photonics -I	Resiliency	Galligan	Laboratory
			National
	Thermal Management System of an Outer-Rotor-Motor-		Renewable
	Based Traction Drive With Integrated Power Electronics	Bidzina	Energy
	in its Central Cavity	Kekelia	Laboratory

06-01: FHE Design & Reliability

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Tuesday, October 8, 2024, 11:00 AM - 12:15 PM **Session Chairs:** Benjamin Leever, Kyungjin Kim

Room: California Ballroom, Salon M

	Hybrid Electronics Integration and Design for Reliability	Janos Veres	NextFlex
	Behavior of Printed Hybrid Electronic Assemblies With		
	Embedded Components in Polymeric Substrates Subject to	Hayden	University of
06-01: FHE	Extreme Acceleration Levels and Elevated Temperatures	Richards	Maryland
Design &	Performance and Reliability of In-Mold Direct-Write Signal	Md Golam	Auburn
Reliability	Processing Circuits in Sustained High-Temperature Operation	Sarwar	University
1 continuity	Performance and Reliability Comparison of Thermoformed,		
	Screen-Printed Structures on Polycarbonate (PC) and High		
	Impact Polystyrene (HIPS) Substrates Under Sustained High	Shriram	Auburn
	Temperatures for In-Mold Electronics	Kulkarni	University

Panel - Data Center and Telecom Challenges and Opportunities

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Tuesday, October 8, 2024, 11:00 AM - 12:15 PM

Session Chairs: Raffaele Luca Amalfi Room: Room: California Ballroom, Salon A

1:30 PM - 2:15 PM ((UTC-04:00) Eastern Time (US & Canada))

Keynote Talk: Passive Two-Phase Cooling of Electronics and Energy Efficiency

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Tuesday, October 8, 2024, 1:30 PM - 2:15 PM

Session Chairs: Jayati Athavale Room: California Ballroom, Salon D

View Track/Session

Tutorial - Efficient Energy Systems/Sustainability/Battery

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Tuesday, October 8, 2024, 1:30 PM - 2:15 PM

Room: California Ballroom, Salon E Session Chairs: Nitin Karwa, Honeywell

2:30 PM - 3:45 PM ((UTC-04:00) Eastern Time (US & Canada))

02-02: Data Centers and Modular Edge Systems - II

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Tuesday, October 8, 2024, 2:30 PM - 3:45 PM

Session Chairs: Yin Hang, Cheng Chen, Jayati Athavale

Room: California Ballroom, Salon B

View Track/Session

	Review of Commercial One-Dimensional Thermo-Fluid	Bharath Ram	
	Solvers for Liquid Cooled Server System	Ravi	Celestica
02-02: Data Centers	Numerical Analysis of Immersed Confined Coaxial Liquid		
and Modular Edge	Jet Impingement Heat Transfer for Electronics Thermal	Faramarz	
Systems- II	Management	Kahbandeh	Faramarz
		Saeel	
	Topology Optimization of Heat Exchange Surfaces Using	Shrivallabh	Purdue
	Ann-Based Anisotropic Flow and Thermal Submodels	Pai	University

03-04: Electronics Packaging - Stress and Reliability I

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Tuesday, October 8, 2024, 2:30 PM - 3:45 PM

Session Chairs: Aniket Bharamgonda, Padmanava Choudhry

Room: California Ballroom, Salon C

03-04: Electronics	Microvia Geometry Assessment at High-Stress		Yokohama
Packaging - Stress	Substrate Locations in Printed Circuit Boards	Mujahid Abbas	National
and Reliability I	Under Thermomechanical Stresses	Syed	University

		Yokohama
Evaluation of Warpage Deformation in		National
Semiconductor Device Packaging Process	Taiju Yagi	University
Effects of Package Position and Constraint		Yokohama
Conditions on Fatigue Life of QFP Interconnect	Nozomi	National
Structure Under Random Vibration	Shimamura	University
Modelling Effect of Isothermal Aging of		
Anisotropic SnAgCu(SAC) Solder Joint Using	Aniket	University of
Crystal Viscoplasticity	Bharamgonda	Maryland

04-02: Power/RF Electronics and Photonics

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Tuesday, October 8, 2024, 2:30 PM - 3:45 PM

Session Chairs: Bikramjit Chatterjee, Michael Fish, Winston Zhang

Room: California Ballroom, Salon L

View Track/Session

	Enhanced RF and Thermal Performance of 400 W GaN-on-SiC S-Band Amplifier MMICs Using CVD Diamond Heat Spreaders	Ian Friel	Element Six (UK) Ltd
	·		Korea
04-02: Power/RF			Advanced
Electronics and			Institute of
Photonics -II	Efficient Cooling Solutions for High Heat Flux		Science and
	Electronics: Ann Optimization of Jet Impingement		Technology
	and Micropost Systems	Seungwoo Kim	(KAIST)
	Evaluating the Transient Thermal Dynamics of High		University of
	Al Content Algan Channel Hemts	Georges Pavlidis	Connecticut

Panel - Machine Learning for Electronics

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Tuesday, October 8, 2024, 2:30 PM - 3:45 PM

Session Chairs: Sumanta Acharya Room: California Ballroom, Salon A

View Track/Session

3:50 PM - 5:15 PM ((UTC-04:00) Eastern Time (US & Canada))

03-05: Electronics Packaging - Stress and Reliability II

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Tuesday, October 8, 2024, 3:50 PM - 5:15 PM **Session Chairs:** Varun Soman, Aditya Harsha

Room: California Ballroom, Salon C

View Track/Session

			University of
	Reliability Analysis of SAC Solder Under Thermal	Patrick	Maryland,
	Fatigue for Encapsulated GaN Packages	McCluskey	College Park
		Shrinath	
03-05: Electronics	Minimizing Die Cracking Risk by Copper Pillar Design	Shrinivas	Marvell
Packaging - Stress	Optimization for Advanced 5nm Silicon Node	Ramdas	Technology
and Reliability II	Evolution of Mechanical Properties and Microstructure of		
and Renability II	SAC305 Lead Free Solder Subjected to Mechanical	Mahbub	Auburn
	Cycling and High Temperature Aging	Alam Maruf	University
	Comparisons of Mesoscale and Conventional Techniques		
	to Predict Thermal Cycling Induced Solder Joint	Debabrata	Auburn
	Deformation Behavior	Mondal	University

06-02: Advanced Materials & Processes for Printed Electronics I

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Tuesday, October 8, 2024, 3:50 PM - 5:15 PM **Session Chairs:** Benjamin Leever, Kyungjin Kim

Room: California Ballroom, Salon M

View Track/Session

	Synthesis of 2d Material and Nanoparticle Inks for	David	Boise State
	Advanced Device Applications	Estrada	University
	Additively Printed Circuits Using Biodegradable		
	Substrates on Aerosol-Jet With Aqueous-Based Silver		
06-02: Advanced	Conductive Paste Using ECA and Low-Temperature	Daniel	Auburn
Materials &	Interconnects	Karakitie	University
Processes for	Thermal Cycling Reliability on Encapsulated Flexible		
Printed	Printed Circuit Fabricated With Water-Based Ink and	Sabina	Auburn
Electronics- I	Room-Temperature Curable Adhesive	Bimali	University
	Comparative Performance Analysis of Screen-Printed		
	Structures on PET and BPET Substrates Utilizing Low-		
	Temperature ECA and MACA for SMD Component	Shriram	Auburn
	Attachment	Kulkarni	University

Workshop: Women in Engineering Workshop

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Tuesday, October 8, 2024, 3:50 PM - 5:15 PM

Session Chairs: Narmadha Parthasarathy, Amy Marconnet

Room: California Ballroom, Salon A

Workshop - K16 Mentoring

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Wednesday, October 8, 2024, 3:50 PM - 5:15 PM Session Chairs: Bidzina Kekelia, Solomon Adera

Room: California Ballroom, Salon K

Efficient Thermal Simulations Using Compact Models

Room: California Ballroom, Salon L Instructor: Tamara Bechtold

5:45 PM - 6:45 PM ((UTC-04:00) Eastern Time (US & Canada))

<u>08-01: Interactive Presentations</u> <u>Add to Google | Outlook | iCalendar</u>

Tuesday, October 8, 2024, 5:45 PM - 6:45 PM

Session Chairs: Solomon Adera Room: San Jose Ballroom

	Electro-Thermal Co-Simulation for Sic Power Module		Chung-Ang
	Based on LTspice-Matlab-Comsol	Juho Park	university
	Thermal Spreading Resistance Analysis for High Heat		Chung-Ang
	Flux Removal in Power Modules of Evs/hevss	nana Kang	university
			School of
			Intelligent and
			Energy
	Enhanced Boiling Heat Transfer on a Large Surface		Industry,
08-01: Interactive	Area With an Integrated Micropillar and Microporous	Youngseob	Chung-Ang
Presentations	Copper Structure	Lee	Univ
1 resemations			Chung_Ang
			University,
			Advanced
	Hierarchical Structure With Laser-Induced-Roughness	Jeonghwan	Thermal
	for Enhanced Pool Boiling Heat Transfer	Park	System Lab.
		Harshith	
	Thermal Transport	Tadikonda	SRMIST
	Advancements in Heterogeneous Integration for Next-	Amokh G	
	Generation Electronic Systems	Nair	SRM IST

	Optimizing Data Management: The Role of Data	M Vaishnavi	an 1 4 4 am
	Centers and Modular Edge Systems in the Digital Era	Prabha	SRM IST
	Wire Bonding Strategy Comparison for High Power		University of
	Applications	Whit Vinson	Arkansas
	Improvement of Adhesion Reliability of Epoxy		
	Adhesives Under Environment of High Temperature	Taro	Gunma
	and High Humidity by Surface Treatment of Adherend	Katayama	University
	Opportunity for Encapsulated Phase Change Material		University of
	Passive Cooling in Thermal Interface Materials	Joshua Kasitz	Arkansas
	Bondability and Corrosion Resistance of Cr-Free	Koya	Gunma
	Brazing Filler for Solid Oxide Fuel Cells	Tsukagoshi	University
	Aluminum Powder-Based Bonding Materials:		
	Preparation Techniques and Characterization of Their		Gunma
	Bonding Properties	Rika Goto	University
	Effect of Ag Addition on Microstructure and		
	Mechanical Properties of Sn-Sb-Ag-Ni-Ge Lead-Free	Kentaro	Gunma
	Solder	Kawai	University
			SRM
			INSTITUTE
			OF SCIENCE
			AND
			TECHNOLOG
	Improving Electronic Cooling With Nanostructured	Karishma	Y - KTR
	Materials	Prasad	CAMPUS
	Comparison of Low Melting Point Lead-Free Solder for		
	Flip Chip Bonding in Mechanical Properties With Sn-		Gunma
	Ag-Cu Solder	Shota Umeda	University
			SRM
			INSTITUTE
			OF SCIENCE
			AND
	Advancements in Multiscale Thermal Transport and	Yashwad	TECHNOLOG
	Energy Storage Technologies	Shaik	Y
	Exposure to Sustained High Temperatures in Additively		
	Manufactured Electronics Created With Water-Based	Sabina	Auburn
	Ink and Low-Temperature Curable Adhesives	Bimali	University
	Accelerated Life Testing Reliability of PFAS-Free	Padmanava	Auburn
	FCBGA Interfaces	Choudhury	University
	Aerosol-Jet Printing of Additive Circuits on	J	,
	Biodegradable Substrates Using Aqueous-Based Silver		
	Conductive Paste With High and Low-Temperature	Daniel	Auburn
	Interconnects	Karakitie	University
	Evaluation of Interfacial Fracture Toughness of		
	Tim/copper and EMC/substrate Interfaces Exposed to	Madhu	Auburn
	Sequential Isothermal and Hygrothermal Loading	Kasturi	University
	Reliability of Conductive Epoxy Joints in Flexible	Sara	Binghamton
	Electronics Undergoing Vibration	Lieberman	University
	Mechanical Properties of LTS and SAC+Bi Subjected to	Mrinmoy	Auburn
	High Strain Rate With Isothermal Aging	Saha	University
	Reliability of Additively Printed In-Mold Electronics	Md Golam	Auburn
	With Eca Under Sustained High Temperature Operation	Sarwar	University
ŀ	Impact of Thermal Cycling on the Reliability of In-	Su1 11 U1	Jiii v Si Si ty
	Mold Direct Write Additively Printed Integrators and		Auburn
		Fatahi Musa	University
-	Active Lowpass Filters.	r atam Musa	
	Aging and Humidity Effect of Non-PFAS TIMs and	Vunli 7hana	Auburn
	UFs Thermal Conductivity Evolutions	Yunli Zhang	University
	Probing the Effects of Sequential Environmental	Aathi Raja	A1
	Stressors on Chip/underfill Interfacial Toughness in	Ram	Auburn
	Fcbga Assemblies for Automotive Applications	Pandurangan	University

Investigations on the Effects of Extended High-		
Temperature Exposure on the Reliability of Lead-Free		Auburn
Solder Joint Assemblies Under Vibrations	Vishal Mehta	University
Performance Comparison of Screen-Printed Structures	G1 :	
on PET and BPET Substrates With Low-Temperature	Shriram	Auburn
ECA and MACA for SMD Component Attachment	Kulkarni	University
Unified Cell Lifetime Model Development for Soh		
Estimation of Li-Ion Batteries Considering Calendar		Auburn
Aging and Post-Knee Degradation	Ved Soni	University
Performance of Oscillator Circuit in Additive In-Mold	Aditya	Auburn
Electronics for Automotive Applications	Harsha	University
Advances in Flexible, Wearable, and Printed	Harshith	
Electronics: Processing, Reliability, and Applications	Tadikonda	SRMIST
		SRM Institute
Thermal Management of 3d RF Pop Based on Ceramic	Hiranmoy	of Science and
Substrate	Dey	Technology
		S.R.M
		INSTITUTE
		OF SCIENCE
		AND
	Jeevan	TECHNOLOG
Low-Temperature Lead-Free	Kumar Yalla	Y
Utilizing Ansys Icepak for Capstone Thermal Systems	Kevin R.	
Design in Mechanical Engineering Education	Anderson1	NA
		SRM Institue of
	Devadharshin	Science and
Thermal Optimization of Smartphone Components	i S	Technology
		SRM Institute
Experiential Learning in Electronic Cooling Design	Dinesh	of Science and
Using Ansys Icepak: A Capstone Course Perspective	Kumar S	Technology
		SRM
		INSTITUTE
		OF SCIENCE
Enhancing Electronics Cooling Efficiency Through		AND
Advanced Heat Transfer Analysis With Ansys Icepak		TECHNOLOG
and Ai/ml Integration	Leni Nikitaa	Y
		srm institute of
		science and
		technology
Thermal Management of High-Power Led Arrays	Pradeep T	kattankulathur
Thermal Management of Autonomous Vehicle	Gowshigan	
Electronics	M	SRM
Enhancing Electronics Cooling Efficiency Through		
Advanced Heat Transfer Analysis With Ansys Icepak	Ramjimahade	
and AI/ML Integration	van Řg	SRM
Cold Plate and Liquid Cooling Thermal Analysis	Raajneel Ray	SRMIST
Enhanced Pool Boiling Heat Transfer Using Re-Entrant	Kaajiicei Kay	
	Vimin 7han	University of Michigan
Surfaces	Yimin Zhou Devadharsini,	wiicingan
	S.	
L'Ibampal Ontimization of Smarthhama Campanant-	I 3.	
Thermal Optimization of Smartphone Components		
Experiential Learning in Electronic Cooling Using	Dinesh	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective		
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and	Dinesh Kumar S	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility	Dinesh	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility Anti-Theft Control of Automatic Teller Machine Using	Dinesh Kumar S Aditya Singh	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility	Dinesh Kumar S	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility Anti-Theft Control of Automatic Teller Machine Using Wireless Sensors	Dinesh Kumar S Aditya Singh Likith Reddy	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility Anti-Theft Control of Automatic Teller Machine Using Wireless Sensors Intelligent Packaging Is Changing Transportation	Dinesh Kumar S Aditya Singh Likith Reddy Md Sameer	
Experiential Learning in Electronic Cooling Using ANSYS IcePACK: A Capstone Course Perspective Revolutionizing Transportation: The Role of AI and Machine Learning in Modern Mobility Anti-Theft Control of Automatic Teller Machine Using Wireless Sensors	Dinesh Kumar S Aditya Singh Likith Reddy	

7 PM – 7:30 PM ((UTC-04:00) Eastern Time (US & Canada))
K-16 Committee Meeting (Open)
Room: California Ballroom, Salon D

7:30 PM – 8 PM ((UTC-04:00) Eastern Time (US & Canada))
K-16 Committee Meeting (Closed)
Room: California Ballroom, Salon D

OCTOBER 9, 2024

8:00 AM - 9:30 AM ((UTC-04:00) Eastern Time (US & Canada))

Plenary Talk: 2.5D/3D Integration for High-Speed Light Engines Add to Google | Outlook | iCalendar

Wednesday, October 9, 2024, 8:00 AM - 9:30 AM

Session Chairs: Saket Karajgikar Room: California Ballroom, Salons GJHF

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Plenary Talk: SRC's Microelectronics and Advanced Packaging Technologies (MAPT) Roadmap: Driving

a New Era of Innovation in Semiconductors and Digital Twins

Add to Google | Outlook | iCalendar Wednesday, October 9, 2024, 8:00 AM - 9:30 AM

Session Chairs: Saket Karajgikar Room: California Ballroom, Salons GJHF

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9:30 AM - 10:45 AM ((UTC-04:00) Eastern Time (US & Canada))

01-01: Heterogeneous Integration Add to Google | Outlook | iCalendar

Wednesday, October 9, 2024, 9:30 AM - 10:45 AM

Session Chairs: Gamal Refai-Ahmed Room: California Ballroom, Salon A

View Track/Session

	A Thermal Reduced Order Model for Power Throttling		
	Simulations of a 3D IC	David Geb	Ansys, Inc.
			Georgia
	Parametric Thermal Design for Heterogeneously Integrated		Institute of
01.01.	High-Power Packages	Yunhyeok Im	Technology
01-01:	Wide-Field, Subsurface Bond Health Evaluation of		Sandia
Heterogeneous	Heterogeneously-Integrated Microelectronics Using	Amun	National
Integration	Frequency Domain Thermoreflectance	Jarzembski	Laboratories
	Efficient Cooling via Dropwise Evaporation on Structured		University of
	Surfaces	Li Shan	Dallas
	Package-Level Evaluation System for 3D Thermal	Suresh	
	Modeling	Parameswaran	

03-06: Electronics Packaging - Stress and Reliability III

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Wednesday, October 9, 2024, 9:30 AM - 10:45 AM Session Chairs: Patrick McCluskey, Madhu Kasturi

Room: California Ballroom, Salon C

	Effect of Die Parameters on the Thermomechanical		
	Performance of PBGA Packages With Hybrid SAC-LTS	Souvik	Auburn
	Interconnects	Chakraborty	University
	Mechanical Characterization and Aging Behavior of	Golam Rakib	Auburn
03-06: Electronics	iSAC Lead Free Solder	Mazumder	University
Packaging - Stress	Effect of Bismuth Concentration on the High Strain Rate		
and Reliability III	Characteristics of Sn-Ag-Cu Solders and Analysis of		
and Kenability III	High-g Level Shock Damage During Extended Sustained		Auburn
	Operation at 100°C	Vishal Mehta	University
	Sequential High Temperature and Hygrothermal		
	Exposure on the Evolution of Interfacial Fracture	Madhu	Auburn
	Toughness of TIM-Copper and EMC Interfaces	Kasturi	University

06-04: Materials & Processes for RF Electronics

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Wednesday, October 9, 2024, 9:30 AM - 10:45 AM Session Chairs: Daniel Hines, Kyungjin Kim

Room: California Ballroom, Salon M

View Track/Session

	Hybrid Additive Manufacturing of Flexible Copper-	Shenqiang	University of
	Based Electronics	Ren	Maryland
06-04: Materials &	3D-Printed Multifunctional Flexible Sensors for Low-		
Processes for RF	Frequency Magnetic Field Detection and	Richard	Tuskegee
Electronics	Manipulation	Harry	University
	Aerosol Jet Printed Coplanar Waveguides on Hpfs	Mousa Al-	Binghamton
	Substrates	Zanina	University

Tutorial - Net Zero Computing: Liquid-cooling and Heat Reuse

Add to Google | Outlook | iCalendar Wednesday, October 9, 2024, 9:30 AM - 10:45 AM

Session Chairs: Subrahmanyam Prabhakar Room: California Ballroom, Salon K

View Track/Session

11:00 AM - 12:15 PM ((UTC-04:00) Eastern Time (US & Canada))

02-03: Data Centers and Modular Edge Systems -III

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Wednesday, October 9, 2024, 11:00 AM - 12:15 PM Session Chairs: Hussameddine Kabbani, Jayati Athavale

Room: California Ballroom, Salon B

View Track/Session

	Experimental Investigation of Single-Phase Forced		
	Convection Heat Transfer With Water in Compressed	Bolape	Villanova
02 02. Data Cantana	Copper Foam	Alade	University
02-03: Data Centers and Modular Edge Systems -III	Effect of Aspect Ratio and Flow Rate on the Flow Regimes		
	and Thermal Performance of Two-Phase Micro-Channel	Yousaf	Villanova
	Cold Plates for Direct-to-Chip Cooling	Shah	University
		Ryan	Seguente
	Passive Direct Liquid Cooling for High-Power Processors	Enright	Inc.

03-07: Electronics Packaging - Stress and Reliability IV

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Wednesday, October 9, 2024, 11:00 AM - 12:15 PM Session Chairs: Jinesh Narangaparambil, Varun Soman

Room: California Ballroom, Salon C

View Track/Session

	Sequential High-Temperature Aging and High		
	Humidity Exposure of Chip/Underfill Interfaces to		
	Investigate the Evolution of Interfacial Stress	Aathi	Auburn
03-07: Electronics	Intensity Factor in FCBGA Stress Intensity	Pandurangan	University
Packaging - Stress and	Investigation of Interfacial Reliability and		
Reliability IV	Comparison Non-PFAS Underfills in FCBGAs Under	Aathi	Auburn
	Humidity and High-Temperature Exposure	Pandurangan	University
	Warpage Prediction Improvements for Thin Package-	Nakul	Qualcomm
	on-Package Architectures	Kothari	Technologies

06-05: FHE Applications & Processing

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Wednesday, October 9, 2024, 11:00 AM - 12:15 PM

Session Chairs: Pradeep Lall, Kyungjin Kim

Room: California Ballroom, Salon M

View Track/Session

			Air Force
	Printed Liquid Electronics for Ultra-Soft Stretchable	Christopher	Research
06-05: FHE	Electronics	Tabor	Laboratory
	Oscillator Performance on Thermoformed Additive In-Mold	Aditya	Auburn
Applications & Processing	Electronics for Automotive Applications	Harsha	University
	Evaluation of Additively Printed Filters on High-		
	Temperature Performance on the Aerojet Platform Using	Daniel	Auburn
	Ceramics Substrate and Laser Ablation Process	Karakitie	University

Workshop: Advancing Electronics Packaging and Heterogeneous Integration: Insights From Interpack 2024

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Wednesday, October 9, 2024, 11:00 AM - 12:15 PM

Session Chairs: Gemal Rafai-Ahmed Room: California Ballroom, Salon K

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1:30 PM - 2:15 PM ((UTC-04:00) Eastern Time (US & Canada))

Keynote Talk: Size and Timescale Matching for Transient-Aware Thermal Management

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Wednesday, October 9, 2024, 1:30 PM - 2:15 PM

Session Chairs: Ronald Warzoha, Damena Agonafer, Saket Karajgikar

Room: California Ballroom, Salon D

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Tutorial – AI/ML Industry Trends

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Wednesday, October 9, 2024, 1:30 PM - 2:15 PM

Session Chairs: Amr Helmy Room: California Ballroom, Salon E

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2:30 PM - 3:45 PM ((UTC-04:00) Eastern Time (US & Canada))

02-04: Data Centers and Modular Edge Systems -IV

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Wednesday, October 9, 2024, 2:30 PM - 3:45 PM **Session Chairs:** Chandrasekaran Sriram, Cheng Chen

Room: California Ballroom, Salon B

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	Numerical Study of Two-Phase Immersion Cooling	Tanya	
	Limits for Bare Die Packages With Novec 649	Liu	Google
	Numerical Study of Single-Phase Immersion Cooling	Sadegh	
02-04: Data Centers and	Limits for Bare Die Packages	Khalili	Google
Modular Edge Systems -	Thermal Performance of Low GWP Dielectric Fluid for	Anil	
IV	Two-Phase Immersion Cooling	Yuksel	HP
	Pool Boiling Performance of Low GWP Dielectric	Cheng-	Oak Ridge
	Fluids for Immersion Cooling in Data Center	Min	National
	Applications	Yang	Lab

03-08: Electronics Packaging - Reliability

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Wednesday, October 9, 2024, 2:30 PM - 3:45 PM

Session Chairs: Kamalendu Ghosh, Jinesh Narangaparambil

Room: California Ballroom, Salon C

03-08: Electronics Packaging -	Study on the Impact of Prolonged High-		Auburn
Reliability	Temperature Exposure on the Reliability of	Vishal Mehta	University

Lead-Free Solder Joint Assemblies Under		
Vibration		
Sequential High Humidity and Isothermal	Padmanava	Auburn
Evolution of UF-Substrate Interface	Choudhury	University
Hygrothermal Aging Evolution of Non-PFAS	Padmanava	Auburn
FCBGA Interfaces	Choudhury	University
Exploring Signal Processing Techniques for		
Resolution Enhancement in Scanning		
Acoustic Microscopy for Microelectronic	Ehsan	Arizona State
Package Inspection	Dehghan Niri	University

07-03: Transportation Systems, AI and Machine Learning

Add to Google | Outlook | iCalendar Wednesday, October 9, 2024, 2:30 PM - 3:45 PM Session Chairs: Tony Thomas, Aditya Harsha

Room: California Ballroom, Salon K

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Panel - Thermal/Mechanical/Electrical Challenges and Opportunities for Mobile/Wireless/AI/IoT/Automotive and Higher Power Compute Devices

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Session Chairs: Victor Chiriac Room: California Ballroom, Salon A

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3:50 PM - 5:15 PM ((UTC-04:00) Eastern Time (US & Canada))

03-09: Electronics Packaging - Thermal I

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Wednesday, October 9, 2024, 3:50 PM - 5:15 PM Session Chairs: Nidheesh Puliyath, Kamlendu Gosh

Room: California Ballroom, Salon C

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	Advances in Thermal Analysis Techniques to Address the	Mo	Microsanj
	Growing Thermal Challenges With Heterogeneous Packaging	Shakouri	LLC
	Fundamental Study on Practical Measurement Method of		Kanazawa
03-09: Electronics	Anisotropic Thermal Conduction Performance Using Zig-Zag	Natsumi	Institute of
Packaging -	Jigs	Kimura	Technology
Thermal I	High-Precision Thermal Characterization of Ultra-Low		
	Thermal Resistance Copper Nano-Wire (CuNWs)-		
	Polydimethylsiloxane (PDMS) Composite Thermal Interface	Kaiying	Stanford
	Materials (TIMs) Tape	Jiang	university

05-03: Multiscale Thermal Transport and Energy Storage

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Wednesday, October 9, 2024, 3:50 PM - 5:15 PM Session Chairs: Valentin Belosludtsev, Adam Wilson

Room: California Ballroom, Salon L

			The University of
			Illinois at Urbana-
	Electrochemical Additive Manufacturing of		Champaign,
05-03: Multiscale	Three-Dimensional Topology Optimized Fins		Department of
Thermal Transport	for High Heat Flux Thermal Management	Valentin	Mechanical Science
and Energy	Applications	Belosludtsev	and Engineering
Storage -III	Quantitative Thermophysical Property		
	Characterization of Thin Layered Structures by		
	Means of Combined Thermoreflectance-Nid	Kazuyoshi	Tokyo Institute of
	Algorithm Technique	Fushinobu	Technology

Performance of Topology Optimized Cold		
Plate Designs for Cooling Arrays of Discrete	Avinash	
Heat Sources	Bairwa	Purdue University
Criteria for Transition From Bubbly to	Ashwani	
Elongated Bubbles Flow Regime	Verma	University of Florida
Enhancement of Thermal Boundary		
Conductance in Wide and Ultrawide Bandgap	Chung-Ping	
Semiconductor Devices With Interlayer	Но	University of Florida

<u>06-06: Advanced Materials & Processes for Printed Electronics II</u> Add to <u>Google | Outlook | iCalendar</u> Wednesday, October 9, 2024, 3:50 PM - 5:15 PM

Session Chairs: Kyungjin Kim, Pradeep Lall

Room: California Ballroom, Salon M

View Track/Session

		Daniel	ChemCubed,
	Innovative Materials for Additive Manufacturing	Slep	LLC
06-06: Advanced	Water-Based Inks and Low-Temperature Interconnects for		
Materials &	Direct-Write Fabrication of Flexible Electronics Under	Fatahi	Auburn
Processes for	Thermal Cycling	Musa	University
Printed Electronics-	Effect of Passivation Layer and Line Thickness on Damage		
II	Mechanism of Flexible Ag Nanowire Interconnects Under	Kazuki	Hirosaki
	High Density Current	Hisasue	University
	Thermal Cycling Reliability of In-Mold Direct Write	Fatahi	Auburn
	Additively Printed Integrator and Active Low-Pass Filter	Musa	University

6 PM – 6:30 PM ((UTC-04:00) Eastern Time (US & Canada))

InterPACK Meeting (Closed)

Room: California Ballroom, Salon D

6:30 PM – 7 PM ((UTC-04:00) Eastern Time (US & Canada))

InterPACK Meeting (Open)

Room: California Ballroom, Salon D

7 PM – 7:30 PM ((UTC-04:00) Eastern Time (US & Canada))

EPPD Meeting (Open)

Room: California Ballroom, Salon D

OCTOBER 10, 2024

8:00 AM - 9:30 AM ((UTC-04:00) Eastern Time (US & Canada))

Plenary Talk: ARPA-E COOLERCHIPS Technology for a Future of Energy Efficient High Power

Density/AI Data Centers

Add to Google | Outlook | iCalendar Thursday, October 10, 2024, 8:00 AM - 9:30 AM

Room: California Ballroom, Salons GJHF

Session Chairs: Jimil M. Shah

View Track/Session

Plenary Talk: Data Center Industry's Supply Chain Readiness and Scalability for Liquid Cooling

Add to Google | Outlook | iCalendar Thursday, October 10, 2024, 8:00 AM - 9:30 AM

Session Chairs: Jimil M. Shah

Room: California Ballroom, Salons GJHF

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9:30 AM - 10:45 AM ((UTC-04:00) Eastern Time (US & Canada))

02-05: Data Centers and Modular Edge Systems -V

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Thursday, October 10, 2024, 9:30 AM - 10:45 AM Session Chairs: Himanshu Modi, Cheng Chen

Room: California Ballroom, Salon B

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	Maturation of Pumped Two-Phase Liquid Cooling to	Russell	
	Commercial Scale-Up Deployment	Tipton	Vertiv
	Investigation of Server Level Direct-To-Chip Two	Akshith	
02-05: Data Centers	Phase Cooling Solution for High Power GPUs	Narayanan	Accelsius
and Modular Edge	Advancing in Data Centers Thermal Management:		
	Experimental Assessment of Two-Phase Liquid	Omar Al-	Binghamton
Systems -V	Cooling Technology	Zu'bi	University
	Thermal Performance of Common Cold Plate for		
	Pumped Single- and Two-Phase Direct Liquid Cooling	Devdatta	Intel
	for Next Generation High Power Server Processors	Kulkarni	Corporation

03-10: Electronics Packaging - Thermal II (Two-phase)

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Thursday, October 10, 2024, 9:30 AM - 10:45 AM

Session Chairs: Aniket Bharamgonda, Aathi Pandurangan

Room: California Ballroom, Salon C

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	Scalable Large-Area Two-Phase Capillary-Enhanced		
	Micro-Cooler Using Silicon Microchannel Fin Array		
	With 3D Silicon Manifold for High-Heat-Flux	Heungdong	Stanford
	Electronics Cooling Application	Kwon	University
03-10: Electronics	Capillary-Based Two-Phase Cooling for High Power		Stanford
Packaging -	Density Power Electronics	Yujui Lin	University
Thermal II (Two-	Mitigation of Boiling-Induced Thermal Degradation		
phase)	Using Microporous Nickel Inverse Opal (NIIOs)		Stanford
	Structures	Kaiying Jiang	university
	Implementation and Assessment of Various Thermal		
	Management Strategies/solutions in 3d Dense Integrated	Luke	Stanford
	Circuits	(Gyubin) Min	University

05-01: Multiscale Thermal Transport and Energy Storage

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Session Chairs: Jorge Padilla

Room: California Ballroom, Salon L

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			Georgia
	Evaporative Thermal Management of Batteries in	Myriam	Institute of
	Electric Vehicles Using Flexible Structures	Bouzidi	Technology
	Comprehensive Analysis of Two-Phase Flow		
	Boiling for IT Equipment Cooling: A System and	Mohammad	CoolIT
	Component-Level Approach	Reza Najjari	Systems
05-01: Multiscale	Enhanced Passive Cooling in Thermal Interface		
Thermal Transport and	Materials via Encapsulated Phase Change		University of
Energy Storage -I	Material Additives	Joshua Kasitz	Arkansas
			California
	Cooling Electronics by Direct Contact With	Amanie	Baptist
	Liquids	Abdelmessih	University
			University of
	Enhanced Pool Boiling Heat Transfer Using Re-		Michigan-Ann
	Entrant Surfaces	Yimin Zhou	arbor

Workshop - Status, Challenges, and Opportunities in Electronics Packaging from a Government/Lab

Perspective

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Session Chairs: Sreekant Narumanchi Room: California Ballroom, Salon M

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11:00 AM - 12:15 PM ((UTC-04:00) Eastern Time (US & Canada))

02-07: Data Centers and Modular Edge Systems -VII

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Room: California Ballroom, Salon B

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	Upper Limits of Phase Change Heat Transfer in	Saeed	University of
	Immersion Cooling	Moghaddam	Florida
	Dielectric Fluid Based Optimization Approach		
02 07. Data Contans	for Heat Sinks in Single-Phase Immersion	Akiilessh	The University of
02-07: Data Centers and Modular Edge	Cooling	Sivakumar	Texas at Arlington
Systems- VII	Experimental Study on Heat Capture Ratio in	Akiilessh	The University of
Systems- VII	Single Phase Immersion Hybrid Cooling	Sivakumar	Texas at Arlington
	Experimental Study of Electrochemical		
	Additively Manufactured (Ecam) Heat Sinks	Joseph	The University of
	for Single-Phase Immersion Cooling	Herring	Texas at Arlington

03-11: Electronics Packaging - Thermal III (Single Phase Convection)

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Room: California Ballroom, Salon C

	Basic Study on Transient Flow Control Technique in		
	Narrow Flow Passage With Flow Separation Region for		
03-11:	Maximization of Cooling Performance of Heating	Daiki	
Electronics	Elements	Kobayashi	
Packaging -	Computational Fluid Dynamics (CFD) Modeling and		
Thermal III	Optimization of Large-Scale (3 cm X 3 cm) Silicon-		
	Based Embedded Microchannels With 3D Manifold	Daeyoung	Stanford
	Micro-Coolers	Kong	University

Microscale Transport Phenomena and Bubble Dynamic in Microfluidic Electroless Copper Interconnection for		
Chip 3d Integration	Yonglin Zhang	

05-02: Multiscale Thermal Transport and Energy Storage

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Thursday, October 10, 2024, 11:00 AM - 12:15 PM Session Chairs: Adam Wilson, Ron Warzoha

Room: California Ballroom, Salon L

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	Optimized Single-Phase Cooling of Multi-	Valentin	University of Illinois at
	Chip Modules	Belosludtsev	Urbana-Champaign
	Dynamic Phase Change Material for High	Soonwook	University of Illinois at
	Power Electronics Cooling	Kim	Urbana-Champaign
	Simulation of Evaporating Cooling in		
05-02: Multiscale	Micropillar Array for Chip Thermal	Sumanta	
Thermal Transport	Management	Acharya	Illinois Institute
and Energy Storage -II	Measurements of Strain-Dependent		
	Thermal Properties of Elastocaloric	Ronald	United States Naval
	Refrigeration Materials	Warzoha	Academy
	Investigation of Hollow Micropillars-		
	Based Evaporator for High Heat Flux		
	Thermal Management	Kidus Guye	University of Maryland

Panel – Additive Manufacturing for Domestic Electronics Packaging

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Session Chairs: Janos Veres

Room: Salon M View Track/Session

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Tutorial - Additive Manufacturing for Electronic Devices and Interconnects

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Thursday, October 10, 2024, 1:30 PM - 2:15 PM

Session Chairs: Mark Poliks Room: California Ballroom, Salon E

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Wearable Ultrasound Technology

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Session Chairs: Benjamin Leever Room: California Ballroom, Salon D

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2:30 PM - 3:45 PM ((UTC-04:00) Eastern Time (US & Canada))

02-06: Data Centers and Modular Edge Systems -VI

Add to Google | Outlook | iCalendar Thursday, October 10, 2024, 2:30 PM - 3:45 PM Session Chairs: Rajesh Kasukurthy, Jayati Athavale

Room: California Ballroom, Salon B

	Commissioning and Thermohydraulic Characterization		
02-06: Data Centers and Modular Edge Systems -VI	of a Single-Phase Liquid-Cooled High-Density Data	Deogratius	Villanova
	Center Rack	Kisitu	University
	Experimental Study of Electrochemical Additive	Jacob	The University
	Manufacturing (Ecam) Cold Plates for Cooling Non-	Lamotte-	of Texas at
	Uniform Heat Dissipation	Dawaghreh	Arlington

06-07: FHE Printing & Packaging

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Thursday, October 10, 2024, 2:30 PM - 3:45 PM **Session Chairs:** Daniel Hines, Kyungjin Kim Room: California Ballroom, Salon M

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06 07. EHE	Validation and Translation of Process Monitoring	Ethan	
	Tools for Commercial Aerosol Jet Printing Systems	Secor	Iowa State University
	Reliability of Direct Write Additively Printed		
	Sustainable Flexible Circuitry With ECA Under	Md Golam	
06-07: FHE Printing &	Sustained High-Temperature Operation	Sarwar	Auburn University
Packaging			The Hong Kong
	Multiphysics Modelling of Direct-Write Hollow Pillars	Qianwen	University of Science
	for Microfluidic I/O by UV-Assisted Coaxial Printing	Xu	and Technology
	Evaluation of Printed Logic Circuits With Additively		
	Packaged GaN Bare Die Devices at High Temperatures	Ved Soni	Auburn University

Panel - Two-phase Flow for Electronics Cooling

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Session Chairs: John Thome Room: California Ballroom, Salon A

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03-03: Electronics Packaging - Materials

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Thursday, October 10, 2024, 3:50 PM - 5:15 PM **Session Chairs:** Nidheesh Puliyath, Kamlendu Gosh

Room: California Ballroom, Salon C

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	Evolution of Non-PFAS Underfill Properties Under High-	Madhu	Auburn
	Temperature Storage and Hygrothermal Exposure	Kasturi	University
	Process-Performance Interactions Under Exposure to		
	Sustained High Temperature for Additively Manufactured		
	Electronics and SMT Assembly With Low-Temperature	Sabina	Auburn
03-03:	Curable Adhesives	Bimali	University
Electronics			Advanced
Packaging -	Additively Manufactured Cold Plate Integrated With		Cooling
Materials	Evaporator Wicks and Phase Separators for Thermal	Mohammad	Technologies,
	Management of Multiple High-Heat-Flux Heat Sources	Reza Shaeri	LLC
			Jade
			University of
	Reduced-Order Modelling for Efficient Chip-Package-Board	Chengdong	Applied
	Design	Yuan	Sciences

06-03: Printed Electronics for Wearables & Health

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Session Chairs: Sheng Xu, Ben Leever Room: California Ballroom, Salon M

06-03: Printed Electronics	Seeing the Sound: An Ultrasound-Based		
	Intravascular Light Source for Non-Invasive	Guosong	Stanford
for Wearables & Health	Neuromodulation	Hong	University

		Binghamton
Sustainable and Cost-Effective Paper Based	Babatunde	University
Dry Electrodes Leads for Health Monitoring	Falola	(SUNY)
Study of Liquid Metal Inks on Textile Fibers		University of
via Direct-Write for a Novel Multi-Layer Rf	Adria	Massachusetts
Application	Kajenski	Lowell

07-02: Transportation Systems, AI and Machine Learning
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Thursday, October 10, 2024, 3:50 PM - 5:15 PM
Session Chairs: Hao Zhang
Room: California Ballroom, Salon K