

# 先進陶瓷技術論壇

## 半導體、構裝及被動元件應用

### Advanced Ceramics Technology Forum :

Semiconductor, Advanced Packaging and Passive Components Applications



**Prof. Jun Abedo , AIST**

New Possibilities for Room Temperature Ceramic Coatings Applied in the High-Power Semiconductor and Passive Component Industry



**Prof. Jun Mizuno, NCKU**

Initiatives for Advanced Heterogeneous integration



**Prof. Clive Randall, PSU**

Rethinking Design, Reliability and Processing of Passive Components

- Four masters will deliver special lectures, inviting relevant renowned researchers to give keynote speeches.
- 4 Sessions: Semiconductor, Package, Passive Component, and Other.
- Multiple exhibitions related to advanced ceramics.
- Simultaneous exhibition of contemporary ceramic artworks on-site.
- Each session can accommodate a maximum of 120 people.

時間

2025

5/26

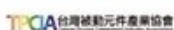
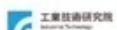
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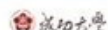
國立台北科技大學

億光大樓 集思會議中心

主辦單位 Organizers



協辦單位 Co-organizer



National Cheng Kung University

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### Forum Agenda Planning

5/26		
8:00 – 9:00	Registration	
9:00 – 9:30	Opening	
	Take a Picture	
Semiconductor Session		
9:30 – 10:15	Plenary Speaker I	Prof. Akedo Jun, AIST
	New Possibilities for Room Temperature Ceramic Coatings Applied in the High-Power Semiconductor and Passive Component Industry	
10:15 – 10:30	Break Time	
10:30 – 11:00	Keynote Speaker S1	Manager: Dr. Lee., Yong-Jay, ITRI
		ALD material synthesis
11:00 – 11:30	Keynote Speaker S2	Prof. Tseng, Tseung-Yuen, NCTU
		Ferroelectric Ceramic Applied in FeRAM
11:30 – 12:00	Keynote Speaker S3	Deputy Division Director. Hsiao, Ta-Ching, ITRI
		Component Semiconductor
12:00 – 13:00	Lunch	
Advanced Package Session		
13:00 – 13:45	Plenary Speaker II	Prof. Jun Mizuno, NCKU
	Initiatives for Advanced Heterogeneous integration	
13:45 – 14:30	Plenary Speaker III	Dr. Yoshiki Takahashi, AGC
	Glass Core or Interposer	
14:30 – 15:00	Break Time	
15:00 – 15:30	Keynote Speaker P2	Prof. Lin, Re-Ching, FCU
		Development, Market Trends, and Challenges of RF Front-End Technology
15:30 – 16:00	Keynote Speaker P3	Prof. Hsu. Ying-Chao, NTUT
		about COWOS

#### 主辦單位Organizers



經濟部產業發展署  
Industrial Development Administration, MOEA



工業技術研究院  
Industrial Technology Research Institute, ITRI



TPCIA 台灣被動元件產業協會  
Taiwan Passive Component Industry Association



TAIPEI 國立臺北科技大學  
TECH National Taipei University of Technology



台灣陶瓷學會  
Taiwan Ceramic Society

#### 協辦單位Co-organizer



成功大學  
National Cheng Kung University

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8:00 – 9:00	Registration	
Passive Component Session		
9:00 – 9:45	Plenary Speaker III	Prof. Clive Randall
	Rethinking Design, Reliability and Processing of Passive Components	
9:45 – 10:15	Keynote Speaker C1	Prof. Rer. Nat. Jörg Töpfer
		Functional Ceramics for Magnetic, Thermoelectric and Thermistor Applications
10:15 – 10:30	Break Time	
10:30 – 11:00	Keynote Speaker C2	Prof. Hung. I-Ming, YZU
		Li Ceramic Batteries:
11:00 – 11:30	Keynote Speaker C3	Deputy Division Director. Dr. Lu, Chun-An, ITRI
		Embedded Capacitor
11:30 – 12:00	Keynote Speaker C4	Prof. Tu. Chi-Shun, FJU
		Superb Capacitive Energy Storage in Bismuth Ferrite Based Multilayer Ceramics
12:00 – 13:30	Lunch	
Advanced Material、Equipment & Measurement Session		
13:30 – 14:00	Keynote Speaker M1	Manager: Chen. Chiung-Hsiung
		Ceramic High-Frequency Dielectric Measurement
14:00 – 14:30	Keynote Speaker M2	Prof. Tseng. Wenjea J., NCHU
		Semiconducting Ceramic Nanohybrids for Enhanced Gas-Sensing Applications
14:30 – 15:00	Keynote Speaker M3	Prof. Shih. Yueh-Ting, NTUT
		Accelerating the Development of Glass Materials through Computational Methods
15:00 – 15:30	Break Time	
15:30 – 17:00	Technical Symposium Clive Randall, Sea-Fue Wang, Akedo Jun, Jun Mizuno, Yoshiki Takahashi	

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Industrial Development Association, IDA



工業技術研究院  
Industrial Technology Research Institute

TPCA 台灣被動元件產業協會  
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