



## SEMINAR

### **Title: Central Fabrication Laboratory- Technical sharing session –Scanning Acoustic Microscopy Principle and application in Semiconductor**

**Date:** 15 April, 2026 (Wednesday)  
**Time:** 2:30pm - 4:00pm  
**Venue:** Room 7-35 & 7-35  
Haking Wong Building, HKU

**Speaker:** Mr. Albert Lin  
General Manager  
Questar China Limited

**Language:** Mandarin

**Limited seats available on a first-come first-served basis**

#### **Abstract:**

The Central Fabrication Laboratory (CFL) is a cutting-edge cleanroom facility located at the University of Hong Kong. Its primary mission is to provide advanced fabrication facilities and expertise to enhance teaching and research activities in micro/nano fabrication. As a leading research laboratory, CFL offers open access not only to University of Hong Kong members but also to local and international institutions, researchers, and companies, with collaborations from the private sector always encouraged. The technical sharing sessions offered by CFL are designed to keep participants updated on the latest micro/nano fabrication techniques and provide valuable networking opportunities with experts from around the world.

Ultrasonic scanning microscopy is an increasingly utilized detection device and method in the semiconductor industry, especially with the explosive growth in demand for AI chips and memory chips. The application of advanced packaging processes such as 2.5D, 3D, HBM, TSV, and TGV has made the detection of internal defects in semiconductor devices crucial for ensuring the reliability and stability of chips. Currently, ultrasonic testing is the only method available to address this issue.

This presentation will primarily focus on the basic principles of ultrasound, the differences between ultrasonic testing vs. other detection methods, the fundamental techniques of

ultrasonic testing, and the application of ultrasonic testing in the semiconductor industry and advanced packaging.

**Biography:**

Lin Qun graduated from the Department of Physics at Fudan University in Shanghai and is a leading expert in the field of ultrasonic testing in the Chinese semiconductor industry. With over thirty years of experience in semiconductor ultrasonic testing, he founded Questar company in 1993 and has served as the General Manager and Chief Technology Officer since its inception. For the past 25 years, Questar has been the exclusive agent for German company PVA TePla's ultrasonic scanning microscopes and has become the world's leading supplier of ultrasonic testing equipment for semiconductors. The company has established long-term collaborations with major semiconductor firms such as TSMC, Intel, Apple, Huawei, and Samsung, providing cutting-edge ultrasonic testing technology and equipment.

**ALL INTERESTED ARE WELCOME**

**For further information, please contact Mr. YIP P.S. (3910 2637, [psanyip@hku.hk](mailto:psanyip@hku.hk))  
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