

Activities Report

Technical Talk Title: Test Engineering and Development of Semiconductor Devices

Speaker: Mr. Sivarama (Sr. Manager at Microchip/Atmel Malaysia)

Venue: KDU Penang University College (Room 306)

Date: 19th May 2016

Time: 2.30 pm to 4.30 pm

Total No. of attendances: 30

On 19th May 2016, the IEM Electronic Engineering Technical Division (eETD) Penang had organised a two-hour technical talk "Test Engineering and Development of Semiconductor Devices" at KDU University College Penang. The talk was delivered by Mr. Sivarama, Senior Manager in Microchip/Atmel Malaysia and committee member of IEM eETD. Mr. Sivarama has over 16 years of engineering experience in the field of semiconductor manufacturing, microcontroller testing, test development, test architect, enable test capability at OSAT's and test software management. He is now leading Microchip Malaysia test development team to lead and drive NPI, test development, gross margin improvement, and implement cost effective test solution for high volume manufacturing.

The aim of this technical talk is to introduce the microcontroller's test development industry to KDU students, including knowledge of test engineering, manufacturing operation and flow, testing procedure, program development cycle and cost of test. The topic of sharing as follow:

- Overview of Testing
- Test Engineering R&R
- Test method – overview
- Manufacturing Testing Flow
- Program development Cycle
- Cost of test
- Yield / Yield Loss
- Qualification and Correlation Process & SW Management

A total of 27 students and 3 lecturers attended the talk. The overall feedback for this talk was great. Students gained a better understanding on test engineering, product engineering and semiconductor manufacturing operation in industry. This talk relate their diploma and degree studies subjects to real-world industry practice. Students also benefited from proactive Q&A during the talk. It was undoubtedly an enriching and knowledge-deepening session with a test product engineer expert from Microchip/Atmel Malaysia, Mr. Sivarama.



Mr. Siva presenting his technical talk on test engineering to KDU students.



reported by

Dr. Chang Boon Peng

Dr. Chang Boon Peng is committee member of Electronic Engineering Technical Division (eETD) of IEM Penang. He is currently a lecturer of KDU Penang University College, Penang, Malaysia.