

REGISTRATION

Registration Fee:

IEEE Student: RM500.00

Non-IEEE Student: RM550.00

IEEE Participant: RM600.00

Non-IEEE Participant: RM650.00

Payment method:

Cash, bank draft or online transfer

payable to:

Name: Electron Devices Society

Bank: CIMB Bank

Acc. No: 8002166442 (please enter
'TFFW2018' at reference details)

Registration deadline : 15 AUGUST 2018

Register your interest of participation via
email to i_helina@upm.edu.my ***NOW!***

Registration is limited to 30 participants.



Co-organized by:

Functional Devices Laboratory
Institute of Advanced Technology
(ITMA)
Universiti Putra Malaysia
and
Electron Devices Society (EDS)
IEEE Malaysia Chapter

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(Attn: Pn. Intan Helina)



INSTITUTE OF ADVANCED TECHNOLOGY
UNIVERSITI PUTRA MALAYSIA

THICK FILM FABRICATION WORKSHOP



27th—28th August 2018
8.30 am — 5.00 pm
Institute of Advanced Technology,
UPM

INTRODUCTION

Thick Film Technology is widely used in electronics industry, with applications in productions of resistors, sensors and IC hybrids. This technology uses 'screen printing' techniques that are easier to use than other techniques used in thin film technology.

This workshop is organized with aim to focus on the introduction to the technology mentioned. This workshop will also introduce participants to our industry collaborator, Khai Lien Silk Screen Suppliers (M) Sdn. Bhd., which specializes in silk screen printing and stencil manufacturing. For this second series, a representative from Anton Paar Malaysia Sdn. Bhd. is also invited to introduce our new Modular Compact Rheometer. A demonstration on patch antenna measurement using Vector Network Analyzer (VNA) will also be carried out to demonstrate the actual application of thick film in antenna fabrication.

OBJECTIVE

- To introduce the basic of thick film technology and screen printing method
- To provide intensive hands-on sessions on the preparation of thick film materials and fabrication process
- To provide platform for participants to share and explore the potential applications of thick film technology in various research fields.

At the end of the workshop, all participants will receive a starter kit which comprises of stencil frame with specified design and a squeegee, to enable participants to be able to apply thick film fabrication after the workshop.



TENTATIVE PROGRAM

DAY 1: 27 August 2018

9.00 - 9.30am : Registration
9.30 - 10.30am : Talk 1 - Introduction to Thick Film Technology
10.30 - 11.00am : Photo session, Break
11.00 - 12.00pm : Hands-on' Session 1 - Thick film paste preparation
12.00 - 1.00pm : Hands-on' Session 2 - Thick film fabrication process
1.00 - 2.30pm : Lunch
2.30 - 4.30pm : Demonstration Session 1 - Antenna measurement using VNA
4.30 - 5.00pm : Tea break & End of Day 1

DAY 2: 28 August 2018

9.00 - 10.00am : Talk 2 - Introduction to Screen Printing
10.00 - 10.30am : Break
10.30 - 12.30pm : Demonstration Session 2 - Stencil frame production process
12.30 - 2.00pm : Lunch
2.00 - 4.30pm : Demonstration Session 3 - Rheology measurement using Rheometer
4.30 - 5.00pm : Tea break & End of Workshop