

Technical Seminar on MicroTechnologies

Micro Injection Molding

Speaker: Professor KL Yung

*BSc (CNA), MSc (Lond), PhD (CNA), CEng, MIEE, MHKIE, Dip(IC) (Lond), SMCMES
Research Areas: Control and Automation, Precision Engineering, CIM*

The speaker will introduce about the key design features of a micro injection molding machine presently being developed at MSTC and targeted for making precision micro parts of high resolution and good consistency. Some of the machine characteristics and performances found from experiments will be discussed. The speaker will also describe some example micro parts being made by plastic injection molding at different industries.

Electroforming Techniques for Manufacturing of Micro Devices

Speaker: Mr. Athanasios Kondomitsos

Managing Director of Mikro- und OberflachenTechnik (MOT)

MOT is a supplier of wet chemical turn key solution for MEMS and SEMICON applications, including electroforming systems and electrolytes. The processes possibilities of MOT for electroplating are for metals like Au, Ni and Cu, alloys like NiFe, NiCo, NiW and SnPb, and electroless plating of Ni, Cu, Au, and SnPb. The company has been in cooperation with IMM GmbH and Surtec GmbH for the development of many customized processes. The speaker will talk about the possibility to use electroforming for the mass production of micro devices. There are two ways for the mass production: production of metallic devices and the replication process by using punching tool/mold inserts made by electroforming including some examples. The speaker will also address on possible plating problems, mechanical properties and stress reduction of plated layers.

Opening Ceremony and Technical Seminar on MicroTechnologies

Opening Ceremony

Date: 15th July 2005

Time: 10:30 a.m. - 12:30 p.m.

Venue: PQ Podium,

The Hong Kong Polytechnic University

Technical Seminar

Date: 15th July 2005

Time: 01:45 p.m. - 04:30 p.m.

Venue: Room AG710, 7/F,

Chung Sze Yuen Building,

The Hong Kong Polytechnic University

Free of charge

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