



An Overview of Electronic Packaging R&D in China

S. W. Ricky Lee

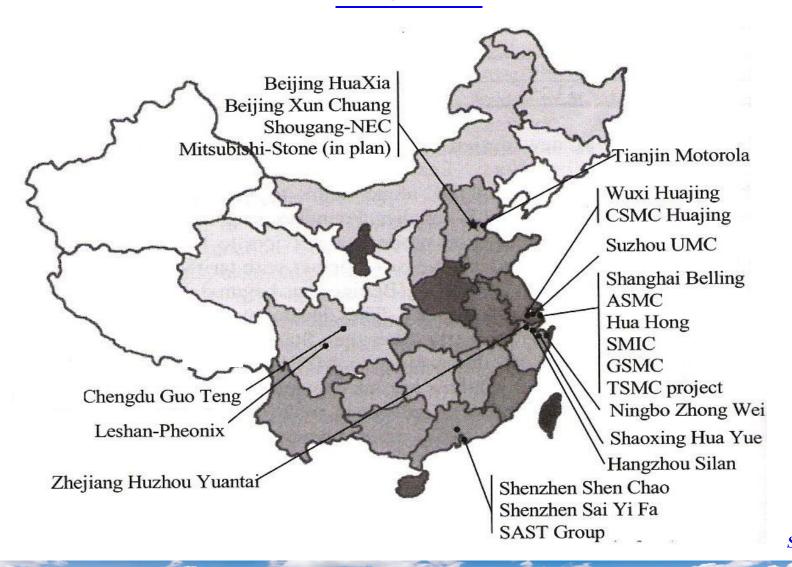
Center for Advanced Microsystems Packaging (CAMP)
Hong Kong University of Science and Technology
Clear Water Bay, Kowloon, Hong Kong

61st Electronic Comp0onents & Technology Conference (ECTC)
ECTC Panel Session: Spotlight on China
Orlando, Florida, USA
May 31, 2011



<u>Distribution of Semiconductor Industries</u> in China





Source: CSIA



Development & Structure of China RoHS





中华人民共和国工业和信息化部

Ministry of Industry and Information Technology of the People's Republic of China



统计信息 网上政务 领导讲话 依法行政 经济运行 政策法规 文件资料 行政许可 专题工作 电信监管 产业与应用 信息化推进 无线电管理 外事活动 人事人才 网站地图

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关键字:

◇ GO 高级搜索 >>

电子信息产品污染控制管理办法(第39号)

2006-03-02

中华人民共和国信息产业部

中华人民共和国国家发展和改革委员会

中华人民共和国商务部

中华人民共和国海关总署

中华人民共和国国家工商行政管理总局

中华人民共和国国家质量监督检验检疫总局

中华人民共和国国家环境保护总局

(第39号)

《电子信息产品污染控制管理办法》现予公布, 12007年3月1日起施行。

信息产业部部长 : 王旭东

国家发展和改革委员会主任 : 马 凯

商务部部长 : 薄熙来

海关总署署长 : 牟新生

国家工商行政管理总局局长 : 王众孚

国家质量监督检验检疫总局局长, 李长江

国家环境保护总局局长 : 周生贤

二00六年二月二十八日

The Chinese version of RoHS, "Management Methods on the Prevention and Control of Pollution Caused by Electronic Information Products", has been finalized by the Ministry of Information Industry (MII, 消息产业部) and signed by other Ministries of China (e.g., NDRC, MOFCOM, SEPA, AQSIQ, General Customs, etc.)



Packaging Related Research Institutes (I)





Institute of Microelectronics of Chinese Academy of Sciences

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Silicon device and integration Technology Department(SDIT)



Microwave Devices and Integrated Circuits Department



Electronic design Platform and Electronic Common Technology Department(ECTD)



ASIC and System Department



Communication and multimedia SOC Department



Microelectronic Equipment Technology
Department



Micro-fabrication and Nano Technology Department



Department of Electronics System Technology



System in Package Department



Integrated Circuit Advanced Process
Center



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Packaging Related Research Institutes (II)

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Shanghai Institute of Microsystem **And Information Technology** Chinese Academy of Sciences



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Packaging Related Research Institutes (III)





HK Applied Science & Technology Research Institute (ASTRI)

Communications Technologies
Enterprise & Consumer Electronics
IC Design
Material & Packaging Technologies
Display Systems
LED Lighting
Advanced Packaging
Technologies
Photonic Components
Device Fabrications
New Developments
Bio-Medical Electronics



Material & Packaging Technologies Group

D Expressions of Interest Contact Our Expert Print

Since its establishment in 2005, the Material & Packaging Technologies (MPT) Group has been focusing on developing high-value, next-generation technologies and products in the form of devices, components, modules and system integration that are differentiated mainly by material and packaging technologies.

MPT has launched five technology initiatives:

- Display Systems
- LED Lighting
- Advanced Packaging Technologies
- Friotonic Components
- Device Fabrications

Building up material and packaging technology platforms will continuously spawn new and competitive applications in the long term. The goal of MPT is to lay foundation for Hong Kong and the Pearl River Delta to become a major centre for designing and manufacturing the next-generation devices and key components for the worldwide ICT industries.



http://www.astri.org/



Universities with Active Research Activities (I)







Electronic Packaging Technology Majors in China



Microjoining Laboratory

Micro Welding and Joining, Electronics Packaging, Interconnection Harbin Institute of Technology

	Harbin Institute of Te
研究内容	电子封装与组装技术
研究人员	-表面组装激光软钎焊技术
研究设备	-SMT焊点形态预测和设计
	-无钎剂免清洗软钎焊技术[国家发明专利]
论文一览	-微组装焊点的可靠性
研究生	-连接界面行为分析和连接材料设计的量子学方法
教学资料	-封装与组装的工艺技术研究
藏书一览	-多芯片模块封装技术
	-低温钎料的设计与低温连接技术
相关连接	-光电子封装技术;半导体LED封装及照明灯具的结构
技术资料	-面阵封装技术
FTP服务	-SMT焊点的缺陷检测和防止
哈工大	- 互连界面的组织演变
财务查询	-无铅钎料合金基础研究
	-无铅焊接设备关键技术
	-微系统封装
哈工大BBS	-混合集成电路封装
工大新闻	-功率器件封装
邮件服务	-微传感器制造技术;微磁头组装键合新技术[新技术]
English	-锡球制造与熔滴凸点制作技术[国家发明专利]
	[研究项目]
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精密焊接

- -复杂精密构件焊接变形控制及工装优化设计
- -铝合金表面活化钎焊的基础研究
- 室温连接技术
- -功能构件的精密焊接技术
- -激光精密焊接
- -激光打孔与激光切割
- -薄膜、箔等的精密电阻焊
- -焊接结构的应力与变形的有限元分析
- -特殊部件的精密焊接技术
- -陶瓷封接技术

欢迎相关专业的毕业生报考本方向研究生:

硕士论文:材料加工工程

博士论文:1、材料科学与工程;2、电子科学与技术

Other University with EPT Majors in China --Beijing Institute of Technology

Huazhong University of Science & Technology Guilin University of Electronics Technology

EPT

教育部批准哈尔滨工业大学成立电子封装技术本科专业,2008年正式开始招生。[专业介绍]

Source: HIT



ICEPT-HDP Conferences





Home

2011 International Conference on Electronic Packaging Technology & High Density Packaging(ICEPT-HDP2011)

August 8~11, 2011, Shanghai, China

The 12th International Conference on Electronic Packaging Technology & High Density Packaging (ICEPT-HDP 2011) will be held in Shanghai, China, from August 08 to 11, 2011. The ICEPT-HDP 2011 is organized by Electronic Manufacturing and Packaging Technology Society (EMPT) of Chinese Institute of Electronics (CIE) and co-organized by Shanghai University. The conference has received strong support from IEEE CPMT and active involvement from IMPAPS, ASME and INEMI.

ICEPT-HDP 2011 is a four-day event, featuring technical sessions, professional development courses/forums, exhibition, and social networking activities. It aims to cover the latest technological developments in electronic packaging, manufacturing and packaging equipment, and provide opportunities to explore the trends of research and development, as well as business in China.

Organizing Institutions:

Tsinghua University Fudan University Shanghai University Harbin Institute of Technology

Huazhong University of Science & Technology Shanghai Jiao Tong University Xidian University

Conference Locations: Beijing

English

Shanghai **Shenzhen** Xian



Universities with Active Research Activities (II)



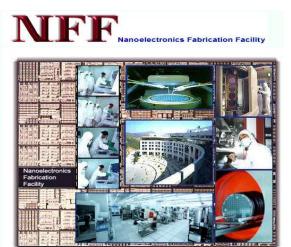




Packaging Related Facilities at HKUST









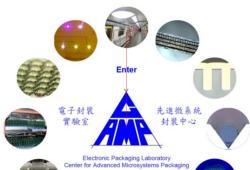
Nano-Fabrication Facility

Semiconductor Product Analysis and Design Enhancement (SPADE) Center

- > Focused Ion Beam (FIB)
- ➤ Emission Microscope (EMMI)
- **ESD** Tester
- ➤ Backside Preparation System (Chip <u>UnZip</u>)
- ➤ Laser Cutting System
- Probe Station
- > Active Probe
- ➤ Liquid Crystal Thermal Analysis
- ➤ Reactive Ion Etch (RIE)
- > Stereomicroscope
- **Confocal Microscope**

nalysis

Center for Advanced
SPADE Center Microsystems Packaging (CAMP)







香港科大深圳电子材料与封装实验室 HKUST Shenzhen Electronic Materials and Packaging Laboratory



佛山市香港科技大学LED-FPD工程技术研究开发中心 HKUST LED-FPD Technology R&D Center at Foshan



Roles of Tertiary Institutions



RESEARCH & KNOWLEDGE CREATION

EDUCATION & HUMAN RESOURCE DEVELOPMENT



TECH TRANSFER, SPIN-OFF COMPANIES, & ECONOMIC DEVELOPMENT

SERVICE TO COMMUNITY & SOCIETY