



## Photo Chemical Machining Institute

Fall International Conference  
Pan Pacific Orchard Hotel, Singapore  
October 3 - 7, 2010



**The Photo Chemical Machining Institute (PCMI) is in its final stages of planning the 2010 Fall International Conference to be held at the Pan Pacific-Orchard Hotel in Singapore.**

**If you have not already started to make your plans to attend, the time is now.**

The conference will cover many subjects in the field of resist, ink-jet printing, exposure, chemicals, R&D and equipment. In addition, presentations will be made on PCM industry trends and etching from the customer's prospective. Plus, PCMI will conduct a post-conference plant tour and a PCM Short Course. This year the Conference will offer a unique opportunity for attendees to talk amongst themselves about PCMI services and benefits and what they want from future educational programs. During this Information Planning Exchange, attendees will also have a chance to meet and work with Catherine Flaherty, the new PCMI Executive Director.

**Don't miss this opportunity to visit [Singapore](#).**

It is truly cosmopolitan, with a fascinating mixture of people and culture: Officially Chinese, Indian and Malay, but also with a huge foreign resident and transit population of Americans, Burmese, Europeans, Indonesians, Japanese and fellow Asians, making it one of the most diverse centers in Asia. Singapore is in fact one of the most enjoyable cities in Southeast Asia.

To reserve your room at the [Pan Pacific Orchard Hotel](#), you can use the attached form or go to [www.panpacific.com](http://www.panpacific.com). The "Room Reservation Form" should be completed and either Fax'd to +65 6831 6682, or e-mailed to [reserve.sgo@panpacific.com](mailto:reserve.sgo@panpacific.com).  
A confirmation will be sent directly to you from the hotel.

**PLEASE NOTE:** All hotel room reservations must be made by **September 1, 2010**. Any Reservations made after September 1, 2010 will be subject to availability and the hotel's current rate.



# Photo Chemical Machining Institute Sponsorship Opportunity

Fall Conference • October 3 - 7, 2010 • Pan Pacific Orchard Hotel • Singapore

## PCMI Sponsorship - It's Good For Business!



*Vendors can demonstrate their support for PCMI and increase their visibility in the industry by becoming a PCMI Conference Sponsor.*

**Platinum Sponsor**      **\$1,000**  
*Sponsors for Technical Sessions or Cocktail Reception*

**Gold Sponsor**      **\$750**  
*Sponsors for PCMI Banquet Dinner Wine*

**Silver Sponsor**      **\$500**  
*Sponsors for PCMI Lunch and Breaks.*

**Bronze Sponsor**      **\$300**  
*Sponsors for PCMI Registration.*

### Why Be a Sponsor?

- ✓ *To support PCMI in its efforts to service and provide benefits to the photo chemical machining industry through education, publications, technical information and assistance, networking, mentoring, business referrals and industry trends;*
- ✓ *To have the opportunity to promote your company's products or services during the conference at a tabletop display;*
- ✓ *To gain access to key photo chemical machining industry leaders at one time and in one place;*
- ✓ *To have your company name on the PCMI website front page, linked to your company website;*
- ✓ *To obtain special recognition during the conference, in the marketing materials and in the Program Booklet.*



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## Preliminary Agenda

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### Sunday, October 3, 2010

9:30 am - 4:00 pm PCMI Board Meeting

### Monday, October 4, 2010

8:30 am - 9:00 am Registration

9:00 am - 9:30 am President's Greeting;  
Welcome Message and  
Introduction of New PCMI  
Members

9:30 am - 12:00 pm Technical Sessions

12:00 pm - 1:00 pm Lunch

1:00 pm - 4:45 pm Technical Sessions

4:45 pm - 5:00 pm Closing General Session

6:30 pm - 7:30 pm Cocktail Reception

7:30 pm - 9:00 pm Authentic Chinese Banquet

### Tuesday, October 5, 2010

8:30 am - 9:00 am Registration

9:00 am - 9:30 am Introductory Remarks &  
Treasurer's Report

9:30 am - 12:00 pm Technical Sessions

12:00 pm - 1:00 pm Lunch

1:00 pm - 4:45 pm Technical Sessions

4:45 pm - 5:00 pm Closing General Session

Evening on your own.

Updated -- July 12, 2010

### Wednesday, October 6, 2010

8:30 am - 12:00 pm Plant Tour TBD

### Thursday, October 7, 2010

9:00 am - 5:00 pm PCM Short Course  
Presented by David Allen  
at Nanyang Polytechnic

### Preliminary List of Featured Topics and Programs

- ◆ "Customer's Point of View"
- ◆ "Digital Direct Imaging With UV-LED Technology"
- ◆ "Information Planning Exchange"
- ◆ "Micro- and Bio- Engineering Applications for Etched
- ◆ "Magnesium of Parts"
- ◆ "PCM Industry Trends"
- ◆ "PCM Short Course"
- ◆ "Study on Electrolytic Photo Etching of Molybdenum Grids  
by the Taguchi Method"
- ◆ "Value Added Processing by Schmid—Design Engineering  
Possibilities"
- ◆ The Sense of Innovation"

### Preliminary List of Speakers -- More to Come!

- ◆ Professor David Allen, Cranfield University
- ◆ Joe Beck, Chemart Company
- ◆ Tan Cher Tok, Nanyang Polytechnic
- ◆ Patrick Jahn, Gebr. Schmid GmbH + Co.
- ◆ Diethard Kapp-Schwoerer, HTP HiTech  
Photopolymere AG
- ◆ Harrie Knol, Stork Veco, The Netherlands
- ◆ Thomas Schmidt, Printprocess AG, Switzerland
- ◆ Professor Harry Wang, Nanjing University of Aeronautics  
and Astronautics
- ◆ Dr. Juming Wang, Chemcut Corporation



Photo Chemical Machining Institute

One Day Short Course

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**"Photochemical Machining: What it is and how to control it"**

Presented by Professor David Allen,  
Professor of Microengineering, Cranfield University, UK

at

Nanyang Polytechnic, Singapore

on

Thursday October 7<sup>th</sup>, 2010

Syllabus

The Photochemical Machining (PCM) process is a multi-stage process involving photoresist imaging and chemical etching technology that requires strict control at all stages for the manufacturing of high quality products at competitive prices. The course considers the vast product range and the metals, photoresists and etchants used. Particular attention is paid to quality control of ferric chloride and cupric chloride etchants and the industrial etchant regeneration methods used to reduce process costs and comply with environmental legislation.

Language: The Short Course will be conducted in English but there will be some provision for English/Mandarin translation.

Lecture room location: Lecture room details will follow delegate registration via PCMI.

Fees: Fees are payable via PCMI.

Members and First Time Attendees	US \$500.00
Non Members	US \$800.00

**Schedule for Thursday October 7<sup>th</sup> 2010**

0900-1030

Introduction to PCM, ferric chloride, cupric chloride and the role of photoresists

1030-1100

Coffee break

1100-1230

Ferric chloride etchant and how to monitor it

1230-1330

Luncheon

1330-1500

Environmental control and ferric chloride and cupric chloride regeneration

1500-1530

Tea break

1530-1630

Round table session for individual questions, summary and close

# REGISTRATION FORM



PCMI 2010 FALL INTERNATIONAL CONFERENCE  
Pan Pacific Orchard Hotel, Singapore • October 3-7, 2010

<u>Fee Schedule</u>	<u>PCMI Member</u>	<u>NON-Member 1<sup>st</sup> Meeting</u>	<u>NON-Member</u>	<u>Amount</u>
Meeting Registration <i>Conference fees include breaks and lunch daily.</i>	US \$450.00	US \$450.00	US \$1,100.00	\$ _____
PCMI Banquet	US \$75.00	US \$75.00	US \$125.00	\$ _____
PCM Short Course	US \$500.00	US \$500.00	US \$800.00	\$ _____
Post-Conference Plant Tour TBA -- <i>Transportation</i>	US \$25.00	US \$25.00	US \$50.00	\$ _____
Sponsorship	<input type="checkbox"/> Platinum - US \$1,000.00	<input type="checkbox"/> Gold - US \$750.00		\$ _____
	<input type="checkbox"/> Silver - US \$500.00	<input type="checkbox"/> Bronze - US \$300.00		
			<b>TOTAL FEE:</b>	\$ _____

Name: \_\_\_\_\_ Name for Badge \_\_\_\_\_  
Spouse Name \_\_\_\_\_ Spouse Name for Badge \_\_\_\_\_  
E-mail address: \_\_\_\_\_ Is this your first PCMI Conference?  Yes  No  
Company/Institution: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**Payment:**  A check for US \$ \_\_\_\_\_, payable to the PCMI, is enclosed (U.S. bank checks only.)

Please charge US \$ \_\_\_\_\_ to my credit card:



Credit Card # \_\_\_\_\_

Please print clearly!

Exp. Date: \_\_\_\_\_ / \_\_\_\_\_ Security # \_\_\_\_\_

We hope all meeting attendees will consider taking advantage of the benefits of PCMI membership, including reduced conference fees and access to technical materials and literature.

Please return registration form and payment by **September 1, 2010** to:

Contact PCMI • Catherine Flaherty, Executive Director  
11 Robert Toner Blvd., # 234 • North Attleboro, MA 02763 USA  
Phone: (508) 385-0085 • Fax: (508) 232-6005 • [cflaherty@pcmi.org](mailto:cflaherty@pcmi.org)

To: Reservations Department  
Pan Pacific Orchard  
10 Claymore Road, Singapore 229540  
Email: [anne.seah@pphg.com](mailto:anne.seah@pphg.com)

Tel: (65) 6831 6626 / 6627  
Fax: (65) 6831 6682  
Email: [reserve.sgo@panpacific.com](mailto:reserve.sgo@panpacific.com)



**ROOM RESERVATION FORM**  
**PCMI 2010 FALL CONFERENCE (2-7 Oct 2010)**

**To register online go to:** [www.panpacific.com](http://www.panpacific.com) The code is 131010PCMI. [Click here for online instructions.](#)

Single room – S \$290 (US \$209) per room per night, including breakfast and in-room broadband.  
Double room – S \$310 (US \$223.50) per room per night, including breakfast and in-room broadband.

All hotel charges are subject to 10% tax and service charge.

Please reserve \_\_\_\_\_ room (s) under my name:

Name: \_\_\_\_\_ (in block & underline family name)

Name of Sharer: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Date of Arrival: \_\_\_\_\_ Flt/Time: \_\_\_\_\_

Date of Departure: \_\_\_\_\_ Flt/Time: \_\_\_\_\_

Premium Deluxe Room (35 sqm)

Type of Bed:  King  Twin  Smoking  Non-smoking

Other special requests: \_\_\_\_\_

\*Note: Rooms/room types will be subject to availability at time of reservation.

To guarantee the room (s), details of my credit/charge card are as follows:

Visa  Master  Diners  Amex  JCB

Name of Card Holder: \_\_\_\_\_

Card Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

I agree to the following terms & conditions:

Cancellation received after 48 hours prior to date of arrival, a one-night room charge will be billed to my credit card.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Confirmed by PAN PACIFIC ORCHARD:**

Confirmation Number: \_\_\_\_\_