

## COURSE DETAILS

Course fees	\$850 without GST
Course venue	Singapore Polytechnic
Course duration	17 hours
Course dates	24 – 26 Nov 09
Course day and time	Tue, Wed and Thu 24- 25 Nov - 9am to 5:30pm 26 Nov - 9am to 12:30pm

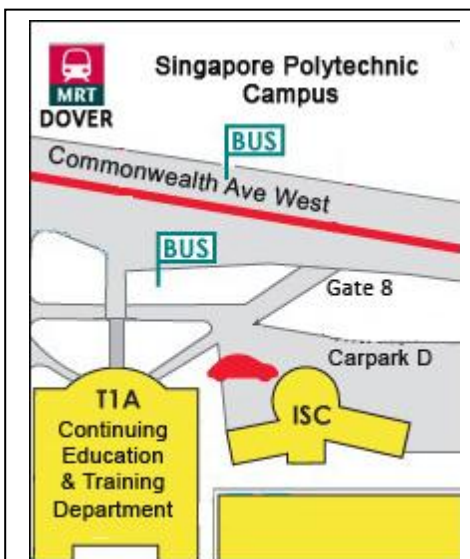
## WHAT IS IT ABOUT?

The patent literature is full of food packaging inventions but few have progressed through to commercialisation and thus qualify as innovations. The three most significant innovations in food packaging are modified atmosphere packaging, aseptic packaging and active and intelligent packaging. All of these innovations involve plastic packaging to a greater or lesser extent and enhance the shelf life of foods.

Therefore this workshop will begin with an overview of the factors influencing plastic polymer structures and related properties. This will be followed by a session on plastic polymer processing. The first day will finish with a tour of the polymer laboratories at Singapore Polytechnic and hands-on demonstrations of polymer processing and testing.

The second morning will cover both the theory behind modified atmosphere packaging (MAP) and its application to flesh foods and horticultural products. A session on aseptic packaging will be followed by a hands-on laboratory session featuring MAP, sealing machine and seal strength testing.

The final morning will cover the exciting area of active & intelligent packaging applications to food.



### Getting to PACE Academy by Bus

#### Commonwealth Avenue West

14, 74, 105, 106, 147, 166, 185, NR5, NR8

#### Dover Road and Dover Avenue

14, 33, 74, 166, 196

### Getting to PACE Academy by MRT

Alight at Dover MRT Station

# Professional Workshop on Innovations in Food Packaging to Enhance Shelf Life



Professional & Adult Continuing Education

500 Dover Road  
Singapore 139651  
T1A, Level 1, T1A12

Hotline: 6772-1288  
Email: cec@sp.edu.sg  
Website: www.cet.sp.sg

### Counter Operating Hours

Weekdays 8.00am to 9.30pm

Closed on Saturdays, Sundays and Public Holidays



Professional & Adult Continuing Education

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# Professional Workshop on Innovations in Food Packaging to Enhance Shelf Life

## SUITABLE FOR

This course is especially targeted at food packaging technologists, food industry R&D staff, packaging manufacturers and regulatory scientists. Technical marketing staff will also find this course beneficial.

## COURSE OUTLINE

### Day 1

#### Lectures

Introduction to Food Packaging and Shelf Life  
Factors Influencing Plastic Polymer Structures & Related Properties

Plastic Polymer Processing

#### Practicals

Tour to Polymer Labs  
Polymer Processing and Testing

### Day 2 at Media room

#### Lectures

Modified Atmosphere Packaging  
Aseptic Packaging  
Practicals

Tour to Packaging Lab  
Modified Atmosphere Packaging  
Sealing machine and seal strength tests

### Day 3

#### Lectures

Active & Intelligent Packaging

## THE PRESENTER

The workshop will be presented by Professor Gordon Robertson who is a consultant in food packaging and adjunct Professor at the University of Queensland in Australia. All participants will receive a copy of his best-selling book FOOD PACKAGING PRINCIPLES & PRACTICE 2nd edition (USD 99.00) which will serve as the course notes.

Professor Robertson has run food packaging workshops in over 10 countries to more than 500 people. Recently the book FOOD PACKAGING & SHELF LIFE which he edited and contributed two chapters was published in the USA.

Prior to his present positions, Professor Robertson was Vice President for Environmental & External Affairs in the Tetra Pak Asia Regional Headquarters for 11 years, and before that Foundation Professor of Packaging Technology at Massey University, New Zealand where he taught courses on food packaging for 21 years.



Professor Robertson is a Fellow of the International Academy of Food Science & Technology, a Fellow of the US Institute of Food Technologists and a Fellow of the Australian Institute of Packaging ([www.gordonrobertson.com](http://www.gordonrobertson.com)).

## MODE OF ASSESSMENT

There is no assessment for this course.

## CERTIFICATION

Participants are not required to sit for examination at the end of the course. A Certificate of Attendance will be issued to every participant whose attendance is not less than 75%.

## COURSE REGISTRATION

Online Registration Service: [www.cet.sp.sg](http://www.cet.sp.sg)

## COURSE PAYMENT

### CHEQUE PAYMENT:

Please raise a cheque made in favour of Singapore Polytechnic, write the Course Title and your name on the reverse of the cheque and mail it to Singapore Polytechnic.

### NETS/ CASH PAYMENT:

To pay at the PACE Academy counter at Singapore Polytechnic, Block T1A, Level 1.

NETS PAYMENT: Mondays to Fridays – 8.00 am to 9.30 pm

CASH PAYMENT: Mondays to Fridays – 8.00 am to 5.00 pm

**Please register by 5 Nov 2009, 5 pm.**

## WITHDRAWAL AND DEFERMENT

Withdrawal and deferment notice must be made in writing to the Department of Continuing Education & Training via email [cec@sp.edu.sg](mailto:cec@sp.edu.sg). For withdrawal cases, the portion of course fee to be refunded is based on the date of notice as follows:

- 2 weeks before the commencement of the course – Full refund
- Less than 2 weeks before commencement of the course – 70% refund
- On or after date of commencement - No refund

The Singapore Polytechnic reserves the right to cancel or postpone any of the courses. Applicants will be duly notified and where applicable, the full fees will be refunded.

The Singapore Polytechnic also reserves the right to amend the fees charged or the period and duration of the courses.