



Elite Scientific Instruments Sdn. Bhd.,
A-LG-03, Block A , Section 1, Serdang Perdana Selatan
43300 Seri Kembangan,
Selangor Darul Ehsan
Tel : (603) 8945 6100 Fax : (603) 8945 7100

Course Title	: Portable Photosynthesis System, LI-6800	Course Duration	: 2 day(s)
Course Code	: LI68	Course Venue	: TBA
Course Category:	Plant Physiology Program		
Course Level	: Refresher	Course Fee	: RM 500 per person

➤ **Objective of Training**

At the end of the course, the participants will be able:

- 1) To obtain a better understanding on advancement design of Portable Photosynthesis System, LI-6800 principles and working operation.
- 2) To make better, confident and more advanced physiological measurements on a variety of plants using LI-6800 unit

➤ **Background facilities**

The training workshop will be completed in two sessions, Theory Session on Day 1 and Practical Session on Day 2 to ensure all participants have a good comprehension regarding the subject matter. The venue for the training course will be announced **one month** before the scheduled date of the workshop.

➤ **Background of Speaker**

This course will be given by our Plant Science Consultant, **Dr Muhammad Nazmin bin Yaapar** who has a wide knowledge and experience in general plant physiology and rice science research. Dr Muhammad Nazmin Yaapar is affiliated to the Department of Crop Science, Universiti Putra Malaysia, where he is currently working as a Senior Lecturer. He has experience in teaching various plant science subjects at university level including agriculture botany, weed science, crop nutrition, rice production and crop physiology. He has authored and co-authored several national and international publications and also working as a reviewer for reputed professional journals. Moreover, he is having an active association with a photosynthesis research team in the United Kingdom. He has been regularly recognised by the local media as the reference scientist particularly in rice cultivation and crop improvement.

➤ **Introduction**

The LI-6800 is quickly becoming the new standard for photosynthesis measurements around the world. The list of publications is growing rapidly as the community adopts the innovative technology to advance their understanding of plant physiology. The LI-6800 includes easy-to-learn software that makes it easier to understand the complexities of photosynthesis measurements. This leads to better data that you can be confident in. Software upgrades are free – stay current for the latest innovations. The RACiR™ Method (Pat. Pend.) was recently published in Plant, Cell & Environment as a fast way to measure CO₂ response. With an eye toward innovation, every aspect of the LI-6400XT has been redesigned so that the LI-6800 will be a valuable investment for years to come. The new Rapid Sensing™ Technology makes the LI-6800 the most technologically advanced photosynthesis system in the world. With gas analysers, temperature response, and the flow path split all located near the chamber; your measurements are faster and more precise than ever before.



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➤ **Target Group**

This training is designed especially researchers who already have experience working with the earlier version of the equipment namely LI-6400XT. Users who wish to have more precise and control over the measurements made as well as exploring more advanced parameters in order to answer even more physiological questions in plants.

➤ **Course Outline**

Slot 1: Introducing LI-6800

- The innovative design of LI-6800
- LI-6400XT vs LI-6800
- System flow path
- Survey measurements and response curves
- Q and A session

Slot 2: Photochemistry Theory for Making Measurements

- How to measure photochemistry?
- Measuring gas exchange
- Chlorophyll fluorescence
- Q and A session

Slot 3: The Tour and Using LI-6800

- LI-6800 components and setting-up
- Components of equipment and functions
- Bluestem Operating System
- Warming-up
- Preventive maintenance
- Plants preparations and acclimation
- Q and A session

Slot 4: Field Demonstration

- Demonstration of survey measurements
- Demonstration of light and CO₂ response curves

Slot 5: Data Interpretation and Analysis of Result

- Data output and networking
- Review data on the console
- Download files to computer for further analysis



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Tentative program

Date & Time	Activities	Venue
<u>Day 1</u>		
8:00 AM	Registration	TBA
9:00 AM	Slot 1: <i>Introducing LI-6800</i>	
10:30 AM	Break	
11:00 AM	Slot 2: <i>Photochemistry Theory for Making Measurements</i>	
1:00 PM	Lunch break	
2:00 PM	Slot 3: <i>The Tour and Using LI-6800</i>	
4:30 PM	Dismiss	
<u>Day 2</u>		
7:30 AM	Slot 4: <i>Field Demonstration</i>	TBA
9:30 AM	Break	
10:00 AM	Slot 5: <i>Data interpretation and analysis of the result</i>	
12:00 PM	Closing ceremony / Photo session/ Lunch break/ Dismiss	