



## LABORATORY DESIGN GUIDE WITH ENGINEERING, SAFETY & ENVIRONMENTAL CONSIDERATIONS

### COURSE OVERVIEW

Safety in laboratories is always the first priority and optimizing energy consumed by the laboratories is feasible through holistic approaches with multiple discipline contribution. Although effort to drive sustainability in lab would be much more comprehensive than in general office, there are still numerous opportunities to enhance the system efficiency with the “know-how” integration of safety and engineering.

### LEARNING OBJECTIVES

Through this seminar, attendees will learn how to:

- Explore various sustainability opportunities through knowledge of hazard classifications, regulation and design aspects.
- Critical planning and the side-effects leading to high capital and operating cost
- Understanding and revisit the fundamentals of integral system design and identification of energy consumed and waste generation in the lab activities
- The legal consequences of poor design and the impact of the local laws and regulations
- Good practices in lab leading to safe and healthy environment in lab
- Enhance sustainability in a wet laboratory with safety and comfort of workers in consideration

**SCEM PDUs TO BE AWARDED BY INSTITUTE OF ENGINEERS, SINGAPORE**

**PDUs TO BE AWARDED BY PROFESSIONAL ENGINEERS BOARD, SINGAPORE**

**APPLICABLE FOR PRODUCTIVITY AND INNOVATION CREDIT (PIC)**

Jointly organised by:

23 & 24 FEBRUARY 2017

9:00AM - 5:00PM

REPUBLIC PLAZA II

# LABORATORY DESIGN GUIDE WITH ENGINEERING, SAFETY & ENVIRONMENTAL CONSIDERATIONS

## PROGRAMME OUTLINE

### Day 1:

- Importance of laboratory suitable design
- Engineering control in risk assessment
- Containment of hazard
- Design methodology

### Day 2:

- Design iterative process and changing trend
- Legal compliance regarding safety in laboratory
- Authorities with jurisdiction in lab matters
- Key issues for labs and lab design
- Green power

SEAS represents the interests of companies in renewable energy, energy efficiency, carbon trading, clean development mechanism projects and the financial institutions to meet, discuss, collaborate and undertake viable projects together. The Association also extends its focus to include capacity building, technology strengthening and market intelligence leading to project access, assisting its members in achieving sustainable growth.

TII offers a wide range of training topics on scientific safety ranging from Biological, Chemical and Radiological applications to Engineering Design and Safety SOPs. Our mission is to inculcate scientific safety awareness to our learners through quality, relevant and innovation courses. TII invites only accomplished professionals in their specific subject matter as our speakers. We assure our participants the highest quality in all our courses.

## ABOUT THE TRAINER



**Dr. Lee Kien Wah** attained his PhD of Chemical Engineering from the University of Melbourne. With over 20 years of management experience in the field of Environmental, Health & Safety and his appointment with multinational companies including oil & gas, pharmaceutical, government agencies and universities makes Dr. Lee a suitable subject matter expert for this course.

Dr. Lee was the Chief Health and Safety Officer for Nanyang Technological University for 8 years. The EHS challenges from different schools are unique and often dynamic. Participants will learn about solving safety issues in different laboratory settings.

## RATES

EARLY BIRD (before 27 January)	NORMAL FEE	GROUP FEE
S\$750.00 (SEAS Member)	S\$800.00 (SEAS Member)	S\$700.00 (4+ delegates from 1 organization)
S\$800.00 (Non Member)	S\$850.00 (Non Member)	

\* EENP member is entitled to SEAS member rate

\* Fees inclusive of GST

\* SEAS reserves the right to make changes to the trainer, programme, venue, cancel or reschedule the programme if necessary or warranted by circumstances beyond our control

\* Payment to be made by the early bird closing date to enjoy the early bird rate

\* Payment to SEAS & Address: Please send a crossed cheque to:

Sustainable Energy Association of Singapore, 1 Cleantech Loop, #02-16 Cleantech One, Singapore 637141

## CALL US AT 6338 8578 TO ENQUIRE!

### REGISTRATION FORM

 Yes! I would like to register for this programme  I am unable to attend but please put me on your mailing list

PARTICIPANT'S DETAILS		Number of Delegates	Fees Payable
1	Name (Dr/Mr/Mrs/Ms)		NRIC No
	HP No	Email	Designation
2	Name (Dr/Mr/Mrs/Ms)		NRIC No
	HP No	Email	Designation
<b>ORGANISATION'S DETAILS</b>			
Company Name			
Company Address			
Contact Name			Tel
Email			Fax