



SMART & SUSTAINABLE LABORATORIES: BEST PRACTICES IN DESIGN, OPERATIONS & CONTROLS

SEMINAR OVERVIEW

Laboratories are unique in terms of their usage and high energy consumption. Optimising energy efficiency in laboratories requires a much greater effort that has to be balanced with safety considerations. Laboratory controls are key to ensure safety and sustainable operations. This seminar will cover lab design for energy efficiency along with best practices in operation and control. Using case studies of existing lab facilities, this seminar will uncover methodical approaches to ensure safe, smart and sustainable laboratories. Some specific topics such as ventilation controls, lighting strategy, risk assessment and control methodologies will be covered in more details.

SEMINAR OBJECTIVES

- Ways to integrate demand approaches into lab design
- Strategic planning to reduce energy through control algorithms
- How to enhance the lab performance during operation
- Cultivate “Good practices” in HVAC and lab design

TARGET AUDIENCES

PMEs (i.e. Laboratory/Facility Managers, Academics, M&E consultants) who are currently employed in Construction, Real Estate Management & Maintenance and Laboratories industries, and whose work focuses on design, installation, test, commission, inspection & maintenance of laboratory systems.

7 SCEM-PDUs TO BE
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PDUs TO BE AWARDED
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APPLICABLE FOR
PRODUCTIVITY AND
INNOVATION CREDIT (PIC)

14 MARCH 2017

9:00AM - 5:00PM

Siemens Auditorium, Room TBC



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PROGRAMME OUTLINE

- 9.00am - 9.15am : Opening Speech
- 9.15am - 10.00am : Proposed framework for Green Mark Laboratory
- 10.00am - 10.30 : Refreshments
- 10.30am - 11.15 : Design of sustainable labs
- 11.15am - 12.00pm : Risk Assessment Ventilation Optimisation Group (RAVOG)
- 12.00pm - 1.00pm : Lunch
- 1.00pm - 1.45pm : Integrated technology makes laboratories more energy efficient
- 1.45pm - 2.30pm : Space pressurization: concept and practice
- 2.30pm - 3.15pm : Methodical approach to sustainability in laboratories
- 3.15pm - 3.45pm : Refreshments
- 3.45pm - 4.15pm : Feedback systems in HVAC
- 4.15pm - 4.30pm : Conclusion/Closing
- 4.30pm - 6.00pm : Networking

SPEAKERS



Mr. Nilesh Y Jadhav
Program Director,
ERI@N



Mr. Leow Yock Keng
Senior Manager,
Building & Construction Authority



Mr. Ryan Wilson
Senior Mechanical Engineer,
Arup Singapore Pte Ltd



Mr. Jim Coogan
Principal Engineer,
Siemens Pte Ltd

RATES

EARLY BIRD (before 3 Mar)	NORMAL FEE	GROUP FEE
S\$380.00 (SEAS Member)	S\$450.00 (SEAS Member)	S\$400.00 (4+ delegates from 1 organization)
S\$450.00 (Non Member)	S\$550.00 (Non Member)	

- * 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 early bird rate
- * Enjoy group discount for 4 or more delegates registered at the same time from the same organisation and same billing source
- * 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		
2	Name (Dr/Mr/Mrs/Ms)		NRIC No
	HP No		
ORGANIZATION'S DETAILS			
Company Name			
Company Address			
Contact Name			Tel
Email			Fax