

Occupational & Environmental Health Society (OEHS)
invites you to

Professional Development Course (PDC)

18 Mar 2020

Shaw Foundation Alumni House
National University of Singapore
11 Kent Ridge Drive, Singapore 19244

Professional Development Course (PDC)

OEHS 2020 Conference is proud to present two professional development courses (PDCs) leading up to the OEHS 2020 Conference.

The courses are formalized learning experiences that, through in-depth instruction by two field experts, renowned in the field of industrial hygiene in Singapore and in Canada.

18 Mar 2020

Pre-conference PDCs



Half-day PDC

Smart Applications of Occupational Air Sampling Strategies

Dr. David LEONG

Ph.D., P. Eng., CIH, ROH, C. Chem., C. Sci.

Former Chief Occupational Hygienist
Ontario Ministry of Labour, Canada

Full-day PDC

Local Exhaust Ventilation System- Principles, Design, Operation, Testing and Maintenance

Adjunct Associate Prof TAN Kia Tang

Registered Industrial Hygienist (Singapore)

Former Senior Consultant at the OSH Specialists
Department, Ministry of Manpower, Singapore



PDC Logistics

There is a separate registration fee for each PDC.

- *Full-day PDC includes two tea breaks and lunch*
- *Half-day PDC includes a tea break*

The soft copy of PDC handouts will be made available prior to the course date and successful participants will be emailed their soft copy. No hardcopy handouts will be provided so please bring your electronic copy for your own use during the course.

Course Certificate

An electronic course certificate will be issued to PDC participants upon completion of the course.

Who should attend?

The two PDCs have been specially designed to be of professional help to

- Occupational hygienists;
- Workplace safety & health professionals;
- Providers in industrial hygiene assessment and laboratory services

Fees

Full day PDC	Half-day PDC
OEHS Member	
\$400*	\$200*
Associate Member	
\$ 440*	\$ 240*
Non-member	
\$ 500*	\$ 300*

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Smart Application of Occupational Air Sampling Strategies

2 RIH
pts

How many air samples should you take for an investigation or compliance testing? How can you justify the cost for an occupational hygiene program where there is limited budget and resources

Half-day PDC
18 Mar 2020
0900 to 1230

Fee

\$ 200* OEHS member
\$ 240* associate member
\$ 300* non-member

This half-day PDC will help participants to learn and better understand the following:

- Regulatory movements leading to the development of various air sampling strategies
- Differences between TLVs and regulated occupational exposure limits (OELs/ PELs)
- Factors influencing the chemical concentration levels in air
- 'Normal' day for sampling
- Three components built into an air sampling strategy
- Common features in the available air sampling strategies
- Merits and practical limitations of some major sampling strategies
- Concentration variability and data analysis
- New concept regarding OEL compliance evolving from the recent sampling strategies
- Technical work and cost considerations prior to initiation of air sampling
- Risk assessment to target the concerned chemicals for sampling
- Smart applications of sampling strategies for monitoring control measures and upgrading controls
- Use of smart sampling technologies
- Considerations to be taken prior to initiation of compliance testing

Dr David Leong



Ph.D., P. Eng., CIH, ROH, C. Chem., C. Sci.
Former Chief Occupational Hygienist , Ontario Ministry of Labour.

Dr David Leong is a Certified Industrial Hygienist (CIH), US American Board of Industrial Hygiene, and a Registered Occupational Hygienist (ROH), Canadian Registration Board of Occupational Hygienist. He is also a Professional Engineer in the Province of Ontario, Canada. He is the retired, former chief occupational hygienist of the Ontario Ministry of Labour.

He serves the American Conference of Governmental Industrial Hygienists (ACGIH) as its Chair of Air Sampling Instruments Committee. He is also the Chief Editor & co-authors for the ACGIH new publication: "Air Sampling Technologies: Principles and Applications", and its twenty-plus monographs. He has authored or co-authored published papers on hand-arm vibration, whole-body vibration, indoor air quality, chemical exposures, bioaerosols, exposure standards, etc.

He was engaged in 2013 by Singapore's Workforce Development Agency and Ngee Ann Polytechnic as a developer and a trainer for three Occupational Hygiene Train-the-Trainer Master courses. More recently, he had been invited to speak at the various occupational hygiene conferences and seminars in China and Taiwan.

David received his Ph.D. in chemistry and M. Eng. in environmental engineering from University of Toronto, and M.Sc. (Honours) and B.Sc. in chemistry from Victoria University of Wellington, New Zealand.

Contact us at oehsadmin@gmail.com
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Local Exhaust Ventilation System - Principles, Design, Operation, Testing and Maintenance

4 RIH pts

Local exhaust ventilation (LEV) systems are widely used for removal of airborne substances (gases, vapours and aerosols) close to or at their point of origin. A LEV system consists of exhaust hood(s), ducts, air cleaner, exhaust fan and discharge stack.

This full day PDC will help participants to learn and better understand the following:

- an overview of these components
- design and specifications of a LEV system for optimal operation
- best practices for testing and maintenance of LEV systems
- troubleshooting problems.

Workplace safety and health practitioners, plant engineers, technical and facility management personnel involving in LEV system appraisal, design or testing will find this PDC very useful.

This is an intermediate industrial hygiene level; an understanding of or a previous course in basic industrial ventilation will be helpful. A scientific calculator is needed for hands-on exercise.

Adjunct Associate Prof Tan Kia Tang



Adjunct Associate Professor
National University of Singapore

Adjunct Associate Prof Tan is a Registered Industrial Hygienist (Singapore). He is immediate past Senior Consultant at the OSH Specialists Department, Ministry of Manpower (MOM). His work includes appraisal and testing of LEV systems for controlling hazardous contaminants and protecting workers' inhalation risk. An author of the MOM Guidelines on Design, Operation and Maintenance of LEV Systems, he is Co-convenor of the LEV Workgroup responsible for developing Singapore Standard Codes of Practice on LEV.

Currently, an Adjunct Associate Professor at the National University of Singapore, he lectures on industrial ventilation - a core subject of the post-

graduate degree in Safety, Health and Environmental Technology programme.

He was also a trainer on LEV at the Institute of Engineers Singapore. He holds a 1st-class Honours Degree in Physics, a M.Sc. in Health Physics and a M.Sc. in Industrial Hygiene.

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Full-day PDC
18 Mar 2020
0900 to 1730

Fee

\$ 400* OEHS member
\$ 440* associate member
\$ 500* non-member

