

BOHS Ambassadors

Kate Jones (Health & Safety Laboratory, UK)

kate.jones@hsl.gov.uk



Het spijt me, ik spreek geen Nederlands

BOHS Ambassador



- Started in 2008
- Open competition called for proposals to fulfil the role in South Africa and Malaysia
- Initially one year appointment but view to these being on-going commitments

BOHS Ambassador programme



- Kate Jones (HSL) BOHS Ambassador to South Africa
- Sean Semple (UoA) BOHS Ambassador to Malaysia
- Aim is to develop and strengthen links between occupational hygiene communities
- Keep each other up to date
- Look for opportunities to develop teaching and training
- Open a dialogue

Role of the Ambassador



- Deliver an occupational hygiene based training initiative.
- Engage with the respective national associations.
- Foster communications between BOHS and the national associations.
- Contribute to the growth in knowledge of occupational hygiene in other countries.

Ambassador to South Africa



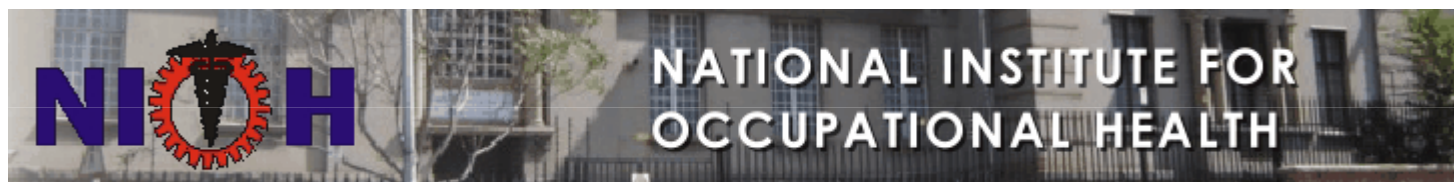
- Kate Jones
 - Principal Scientist at the Health & Safety Laboratory, UK.
 - Analytical toxicologist, specialising in biological monitoring of organic chemicals.
 - Over 15 years' experience of biological monitoring in occupational and environmental exposure settings.

Ambassador to South Africa



- Pre-existing links with NIOH, Johannesburg
- Spent a one month secondment in 2005 at NIOH helping to establish new routine biological monitoring methods in the Analytical Services section.
- Met with many of NIOH staff, including occupational hygienists and medical staff.

NIOH, Johannesburg, SA



- The NIOH is an institute within the National Health Laboratory Service (NHLS):
 - improving occupational health in South Africa.
 - supporting the development of occupational health services in the countries of the Southern African Development Community (SADC).

SAIOH



- **Southern African Institute of Occupational Hygiene**
- Formed in 2000
 - amalgamation of OHASA and IOHSA
- Current President Melinda Ventner
- Website currently under construction
www.saioh.co.za

Ambassador to South Africa



Course proposal

“Biological Monitoring: A Valuable Tool for
a Healthier Workplace”

Aimed at occupational health professionals –
hygienists, physicians, nurses

BM in South Africa



As well as 700 TLVs, South Africa has 37 Biological Exposure Indices enshrined in legislation – if a substance appears in Table 3 of the Hazardous Chemical Substances Regulations then biological monitoring is required (at least every two years).

BM in South Africa




- Resources to enforce this legislation don't quite match up.
- Nevertheless, a significant amount of biological monitoring is carried out in South Africa (estimated at ~50 000 samples per year).
- Why then is an introductory course necessary?

BM in South Africa



- Biological monitoring falls under medical surveillance in the Regulations.
- Historically been undertaken by occupational physicians and nurses, who do not necessarily appreciate workplace exposures and how they occur and can be controlled.
- NIOH flagged the need for training



The programme will feature three international experts as well as a number of South African experts in the field of biological monitoring:

Ms Kate Jones - Principal Scientist, Health & Safety Laboratory (HSL), UK
Authority in the field of biological monitoring for organic substances

Dr Henri Heussen - Senior occupational hygienist / toxicologist, Arbo Unie, Netherlands
Specialist in the application of biological monitoring in industrial settings

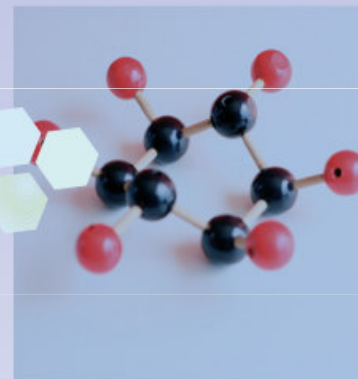
Mr Ayyappan Ramalingam - Senior lecturer, Department of Environmental Health Engineering, Sri Ramachandra University, Chennai, India
Expert in industrial hygiene, risk assessment and environmental chemistry

Course Outline

- Introduction to biological monitoring
- When is biological monitoring necessary to assess exposure?
- Advantages, disadvantages and ethical considerations of biological monitoring
- Elements of BEI and the German BATs
- How to develop and implement a biological monitoring programme
- How to control confounding variables
- Sampling issues and quality assurance
- Interpretation of data and communication of results
- Case studies
- Interactive sessions throughout the course

On completion of the course, the participants will be able to:

- Explain the basics of biological monitoring and its roles in ensuring a healthier workplace
- Determine where biological monitoring fits in a comprehensive occupational health programme
- Decide whether biological monitoring is appropriate in a particular situation, know how to design a monitoring strategy and carry it out
- Interpret the results of biological monitoring and take appropriate action as a consequence
- Understand the ethical considerations of biological monitoring.



Due to limited space,
only 120 delegates
can be accommodated
per venue.

To avoid disappointment,
please complete the attached
registration form and fax it
to Ina Naik on
Fax No. 011 712 6533



For further information on the
Johannesburg course, please
contact:

Ms Ina Naik
Tel: (011) 712 6410
Fax: (011) 712 6533
E-mail: ina.naik@nioh.nhls.ac.za

For further information on the
Bloemfontein course, please
contact:

Ms Letshego (Lucky) Nophale
Tel: (051) 405 3535
Fax: (051) 444 5971
E-mail: gngmlen.md@mail.ufs.ac.za



Ambassador to South Africa



Two day course covering:

- Chemicals and their health effects
- Introduction to biological monitoring
- Toxicology in brief
- South African experiences of BM
- Practicalities
- Case studies
- “Selling” BM
- Interpretation of results
- Future developments

Ambassador to South Africa



Course included two “group working” practical sessions



Ambassador to South Africa



Two courses were held:

- One in Johannesburg (105 delegates)
- One in Durban (40 delegates)

Feedback was overwhelmingly positive in terms of course content and achieving course aims

Ambassador to South Africa



- Discussions are on-going with SAIOH, NIOH hygienists and other interested parties about how the Ambassador system can further promulgate joint working and support.
- Discussions are underway regarding the International Occupational Training modules as championed by Roger Alesbury, BOHS President-Elect.

BOHS Ambassador program: Malaysian Ambassador 2008-9

Dr Sean Semple

Department of Environmental & Occupational
Medicine, University of Aberdeen, UK

BOHS Ambassador to Malaysia

Ambassador to Malaysia

■ Sean Semple

- Senior Lecturer, Department of Environmental & Occupational Medicine, University of Aberdeen.
- Interests include exposure assessment methods, secondhand tobacco smoke and the health effects of biomass fuel smoke exposure in the developing world.
- Recent research on the evaluation of smoke-free legislation across the UK and projects measuring indoor air pollution in Malawi, India and Nepal.

Why Malaysia?

- Emerging Occupational Hygiene community
- MIHA- formed in 2003
- Students at Aberdeen
 - Nine MSc and PhD students in recent years
 - 5 now serve on MIHA committee
- IOHA
 - 9th IOHA conference February 2012, KL Malaysia
- Regional centre for hygiene activity
 - ASEAN Countries
 - Links to Vietnam, Korea, Indonesia...



Same issues we face...

- Noise
- Dust
- Solvents
- Vibration
- Poor PPE
- Construction hazards
- IAQ
- How to recognise, evaluate and control...



CRUSHED TO DEATH

Two Bangladeshi workers were crushed to death when a steel bucket filled with bricks fell on them at a construction site in Bangsar, Kuala Lumpur, yesterday. Brickfields police chief Assistant Commissioner Wan Abdul Bari Wan Abdul Khalid said the incident occurred about 2.30pm at the

construction site of a 38-storey office building near Menara UOA. The bucket fell from the 20th floor. He said the cable connecting the bucket to the crane gave way and caused it to plunge down, crushing the two workers. Police have ruled out foul play.

MMA clears the air over occupational health cases

KUALA LUMPUR: Doctors are up in arms over allegations that ignorance among some in their ranks had led to thousands of workers being deprived of aid and pensions from the Social Security Organisation.

Malaysian Medical Association president Datuk Dr Khoo Kah Lin said the MMA had conducted numerous courses on occupational health issues.

"The Society of Occupational and Environmental Medicine (SOEM) also conducts courses to update doctors dealing with Socso on occupational health cases. If there are any issues involved, the minister should request the Socso chief executive officer to have a dialogue with the MMA and not condemn doctors in general in the media," he said in a statement.

He was responding to Human Resources Minister Datuk Dr S. Subramaniam's statement that doctors here were unable to link diseases to jobs.

He had also said that thousands of workers filed for such claims annually in other countries "but here, we receive (only) 300 to 400".

Dr Subramaniam had added that eight in 10 workers were denied Socso medical aid



“
THE SOCIETY OF
OCCUPATIONAL AND
ENVIRONMENTAL MEDICINE
ALSO CONDUCTS COURSES TO
UPDATE DOCTORS DEALING
WITH SOCISO ON
OCCUPATIONAL HEALTH
CASES.”

— Datuk Dr Khoo Kah Lin
Malaysian Medical
Association president

and cash benefits because of doctors' ignorance.

Dr Khoo said medicine was a noble profession and that 21,000 doctors in the govern-

ment and private sector had taken the Hippocratic Oath to serve with dedication and to practice ethically.

Dr Khoo said the panel of doctors serving the industries was knowledgeable in detecting diseases aggravated or caused by workplace hazards.

He proposed a dialogue with the ministry, Malaysian Employers' Federation, Malaysian Trades Union Congress and Socso on the issue.

Meanwhile, University Putra Malaysia's Faculty of Medicine and health Sciences occupational therapist, Associate Professor Nathan Vythialingam, said injured and disabled workers should try to return to work after rehabilitation before seeking compensation from Socso.

He said most of a group of 80 patients aged between 20 and 40 sent for rehabilitation over the past two years had managed to return to work.

"We assessed their condition and sent them for rehabilitation programmes.

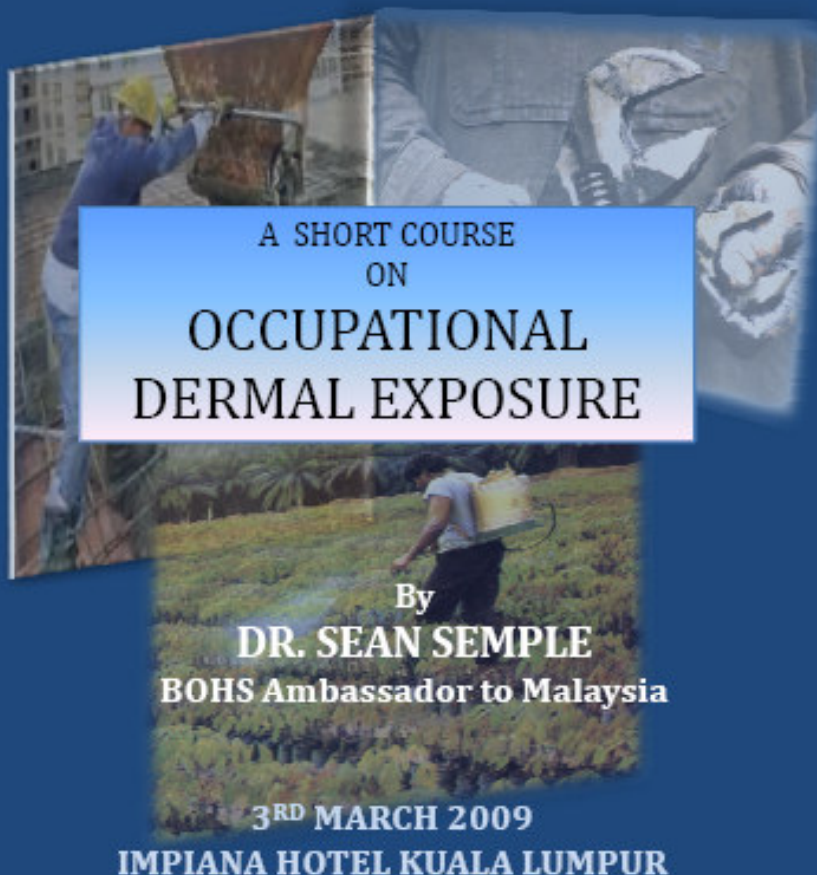
"With proper rehabilitation, counselling and motivation, we managed to get most of them to return to work, either on the same job, different jobs or light duty."

March 2009 visit

- 2nd-8th March 2009
- Two meetings with MIHA committee
- Delivery of a BOHS-MIHA short course on dermal exposure
- Meetings with Malaysian NIOSH
- Advised Malaysian DOSH on control banding
- Meetings with representatives from two large technical Universities in Kuala Lumpur
- Encouraged academics to consider publishing in the AOH
- Presentation on dermal exposure to MIHA members in Kerteh
- Discussions with Petronas staff about research agenda
- Discussed support for IOHA Conference in 2012



present



A SHORT COURSE
ON
**OCCUPATIONAL
DERMAL EXPOSURE**

By
DR. SEAN SEMPLE
BOHS Ambassador to Malaysia

3RD MARCH 2009
IMPIANA HOTEL KUALA LUMPUR

The aim

This short course will look at the basics of understanding chemicals and the skin before moving on to looking at dermal exposure assessment, assessment of skin condition and methods of controlling exposure across a number of key occupations.

The participants

This short course will be useful to all of those in industrial hygiene who have an interest in issues relating to exposures via the skin, skin health and recent advances in controlling exposure in the workplace.

The trainer



The course will be hosted by Dr. Sean Semple, Senior Lecturer in Occupational Hygiene at the University of Aberdeen. He is involved in a wide range of research projects examining occupational and environmental exposures and their impact on health. Dr. Semple has also published over 40 papers, letters, reports and book chapters. One of his scientific papers won the prestigious ECETOC young scientist of the year award in 2003. He is currently the Chair of the Scientific Committee of the Occupational and Environmental Exposure of Skin to Chemicals (OEESC 2009).

Teaching materials and a copy of the recent BOHS book "Controlling Skin Exposure to Chemicals and Wet-Work" by Dr. Bob Rajan (worth RM120).

The giveaway

The investment

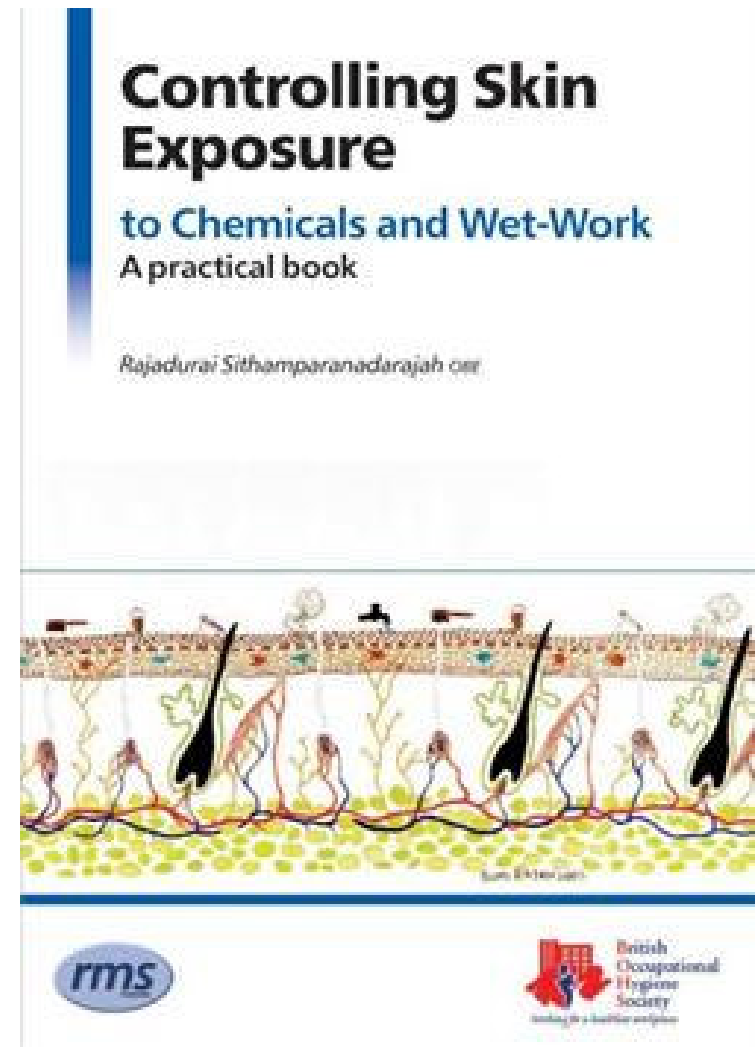
MIHA Member	RM400
Non-member	RM500

For more info..

Call us at **+603-61352990/+6019-3312173** OR
Fax us at **+603-61362990** OR
Email to us at **admin@miha2u.org**

Format of the course

- Short talks
- Case studies
- Participant input
 - ☐ Questions
 - ☐ Discussion
- Textbook “Controlling skin exposure” by Dr Bob Rajan
- Fully subscribed
- 32 delegates



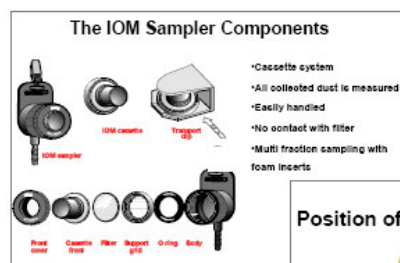
Course timetable

0900-0915	Welcome and introduction
0915-1000	The skin and occupational hygiene
1000-1030	Local effects on the skin
<i>1030-1100</i>	<i>Coffee</i>
1100-1145	Systemic effects and case study
1145-1230	Measuring exposure
<i>1230-1330</i>	<i>Lunch</i>
1330-1400	Assessing wet work exercise
1400-1445	Controlling dermal exposure
<i>1445-1515</i>	<i>Coffee</i>
1515-1600	Discussion and questions



Demonstration of teaching materials available for International Modules

- Previous discussions with Roger Alesbury
- MIHA
- Malaysian NIOSH
- Universiti Putra Malaysia (UPM)
- Universiti Teknologi Mara (UiTM)
- Possibility of combining Modules with a Masters level program in Occ Hyg



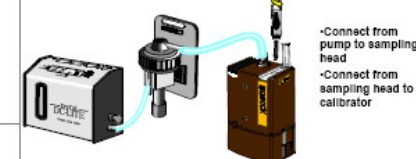
Position of Sampling Device



GHS Pictograms

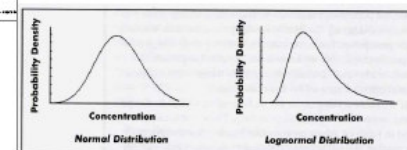


Calibration System



Adjust flow to require flowrate

Normal v Lognormal Distributions





Control banding meeting

- Malaysian DOSH considering introducing control banding system
 - COSHH Essentials
 - Stoffenmanager
 - ILO Toolkit
- Proposed MIHA lead on some pilot work to see how compatible they are to Malaysian regulation



Trip to Kertih



- Many hygienists in Malaysia based at the Kertih Integrated Petrochemical Complex (KIPC) in Terengganu
- Focuses on ethylene-based products
- 4,000 hectares of land
- Visit to talk to hygienists about the need to consider dermal exposure



Outcomes from Malaysia

- Increased awareness on dermal exposure among MIHA hygienists
- Demonstrated International Modules - discussions ongoing on MoU
- Encouraged consideration of a research agenda
- MIHA are keen to provide membership access to the AOH- discussions ongoing
- Established links between local academics involved in environmental & occupational health and MIHA

Conclusions



- BOHS Ambassadors still in development
- Courses have been very well received
- Significant scope for future collaboration and expansion
- The Dutch initiative is welcomed and can play an important role.



Om het even welke vragen
(in het Engels!)?