



# Science and Technology

- ❖ Saving lives
- ❖ Improving health
- ❖ Reducing costs
- ❖ Delivering Productivity  
Profitability

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# Current Trends in the UK and EEC



**P**olitical

**E**conomical

**S**ocial

**T**echnological

**L**egal

**E**nvironmental

# Exposure Setting

## Professor John Howard



Prof. Howard

Future direction

- ✓ Total worker health
- ✓ Prevent by design
- ✓ Technology
- ✓ Virtual world
- ✓ Codification
- ✓ Physics/eng.
- ✓ Global Std.

*Leadership*

# Prof. Jerry Sherwood



2020

Adapt  
to

shape

Meet  
demands of

Market

Eng.  
knowledge

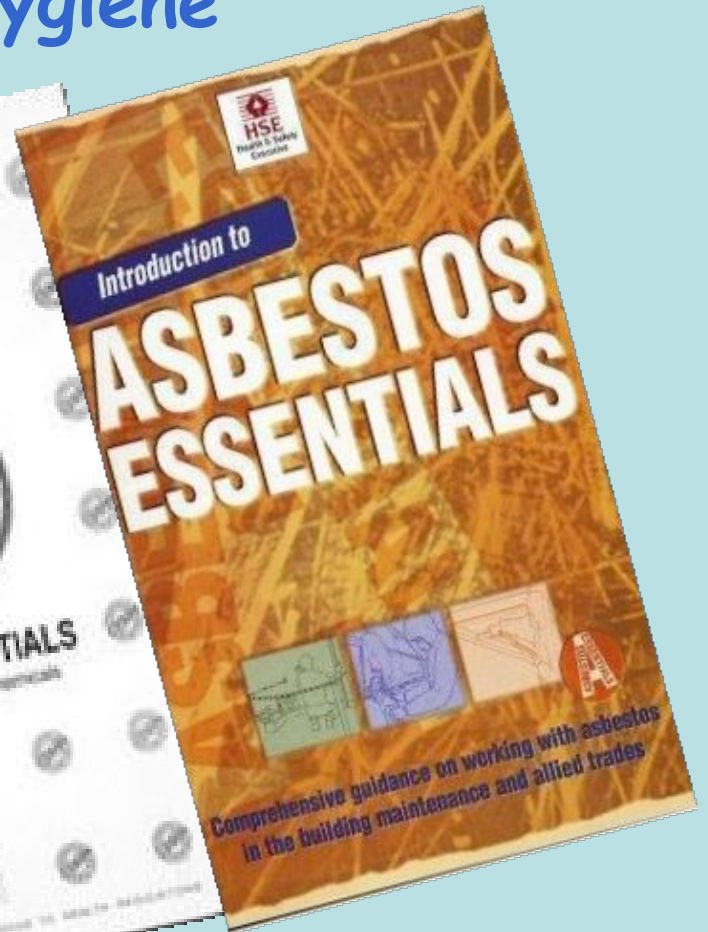
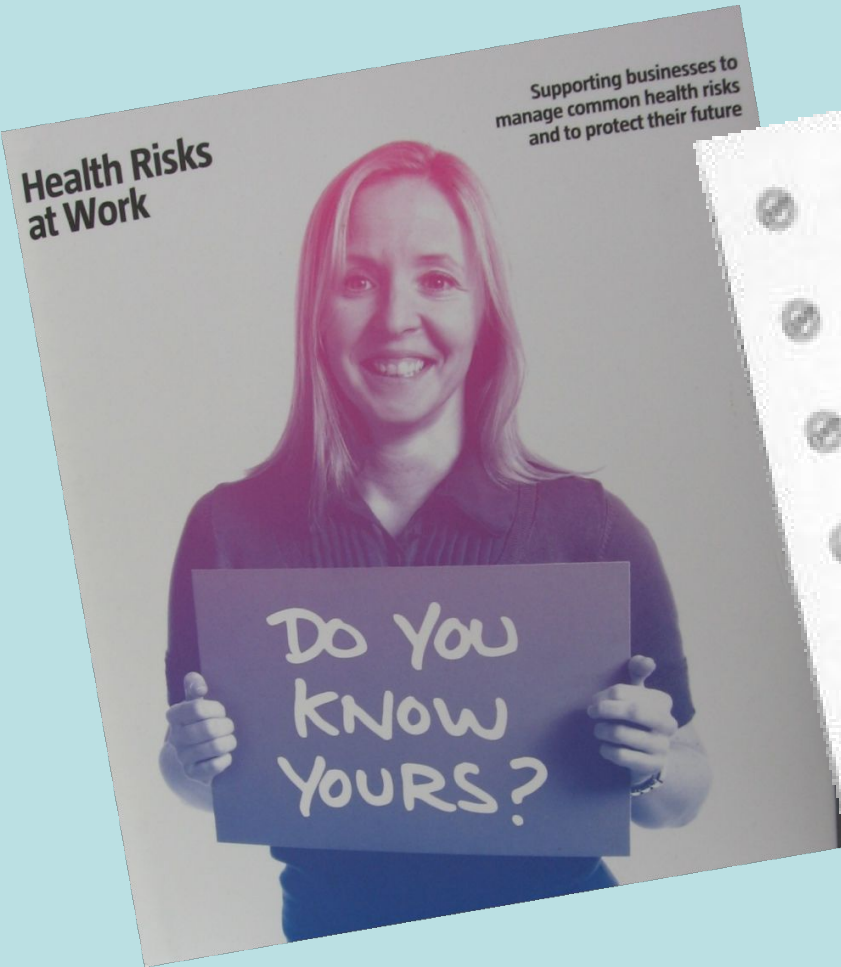
Economically optimum  
control solutions

## Systems & Future Direction

- **Simplified & Codified Occ.Hyg.**
- **Exposure science vs. Control science**
- **Technology**
- **A case for Total Worker Health**
- **Affective Health Risk Management**
- **Value-based Occ. Hyg.**

• **TQHA**

# Simplified and Codified Occupational Hygiene



Start the RPE Selector Tool 



# Exposure Science

vs.

# Control Science



# Control Science and Marketing



# Technological innovations and our practice

# A case for total worker health



# Why ~~Effective~~ Health Risk Management Goes Wrong?

Controls

Attitudes

Behaviours

Inaction

No procedures/systems

Human errors

Awareness

Supervision

Instruction

Training

# Affective Health Risk Management



# Affective Health Risk Management

Total Worker Health

Culture  
Attitudes  
Behaviours  
2  
Motivation  
Actions

Safe  
Un  
Safe  
Acts  
Noted

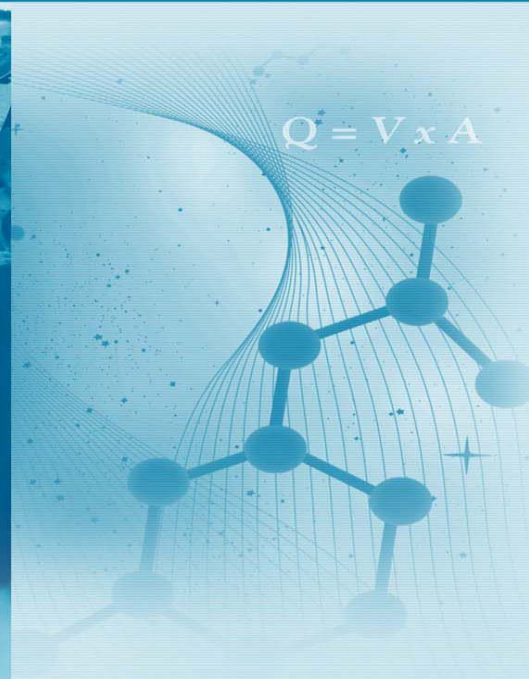
Ill-health  
Prevention  
Performance  
Indicators

Recognise, Reward, Celebrate

# Value-based occupational hygiene

*Demonstrating the  
Business Value of  
Industrial Hygiene*

[www.ihvalue.org](http://www.ihvalue.org)





# IOHA and globalised world

Practice Stds

Competency

Entry requirements

Training requirements

PR & lobbying

# Current Trends in the UK and EEC



## Demand

- Business Case & ROI
- OH as Assets RM
- Affective Health RM

# Occupational health risk management and Future



*The future belongs to those willing to question current ways of doing business, abandon existing mindsets, and break the rules that bind business to the past.*

**Larry L Hansen,**  
"Re-Braining" Corporate Safety and Health.

**Traditional approaches  
To  
Health Risk Management**

# Affective Health Risk Management

