

# Contribution of education and continuing professional development to COME

Chengi Kuo  
(University of Strathclyde)

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# INTRODUCTION

- Great concern on the environmental impact
  - Global warming, green house gases, etc.
  - Oil pollution, waste discharges into the sea
  - The need to protect the oceans is accepted
- However, insufficient attention is paid to
  - The values of education and CPD to COME
  - Devise appropriate COME methodologies

# SCOPE OF PRESENTATION

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- State the roles of education and CPD
- Explain the non-absolute nature of COME
- Give a management system based method
- Highlight the usage in education and CPD
- Outline a possible way forward

# ROLES OF EDUCATION - 1

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- Education usually places emphasis on
  - Acquire knowledge, skills, understanding....
- Involves thinking and broadens the mind
  - Able to offer multi solutions to any problem
- It is a continuing process that can aid in
  - Developing a life long learning habit

# ROLES OF EDUCATION - 2

- Education has also a key role in developing
  - A positive human behaviour culture (HBC)
- HBC can enhance performance with right
  - Action, attitude, commitment.....
- Can provide support to effective training,e.g.
  - With insights into doing training tasks

# ROLES OF CPD

- Knowledge, skills.... acquired need updating
  - Regularly in all areas of human activities
- This can be done in a variety of ways, e.g.
  - Attend seminars, go on courses while in jobs
- CPD can offer various subjects, durations.....
  - Some are structured that leads to awards

# NATURE OF COME - 1

- Environmental impact is now a popular term
  - Must be assessed in doing a project
  - Usually responsively for meeting rules
- Care of environment is pro-active and it
  - Is dependent on personal perception ,e.g.
  - Two persons would care differently
- This is the concept of non absoluteness

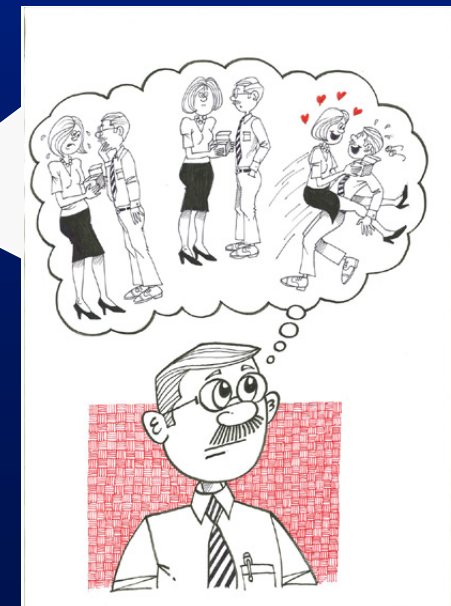
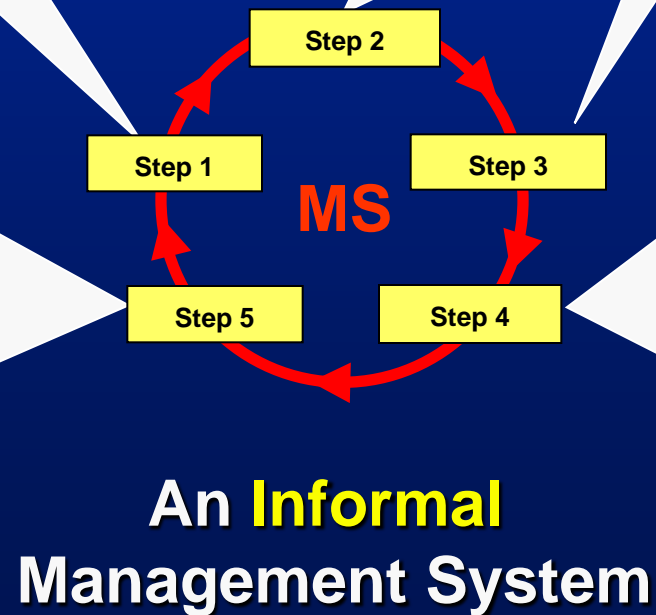
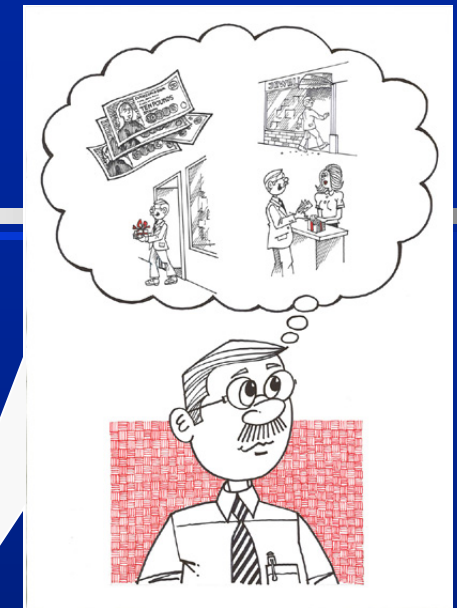
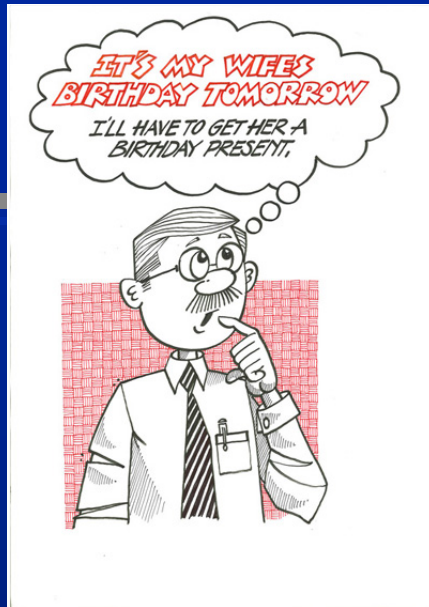
# NATURE OF COME - 2

- What does non-absolute mean in an activity?
- There is no right or wrong answer or solution
  - The aim is to meet the pre-defined goal & performance criteria with any method
- In practice it seeks the most cost-effective
- Its treatment requires a special methodology
  - Based on a management system



# MANAGEMENT SYSTEM - 1

- As caring is non absolute, it is essential to
  - Use a management system (MS)
- There are five basic elements and located
  - On a circuit for iterating and refining
- What is a MS? It can be explained via
  - An illustrated birthday gift example



# MANAGEMENT SYSTEM - 2

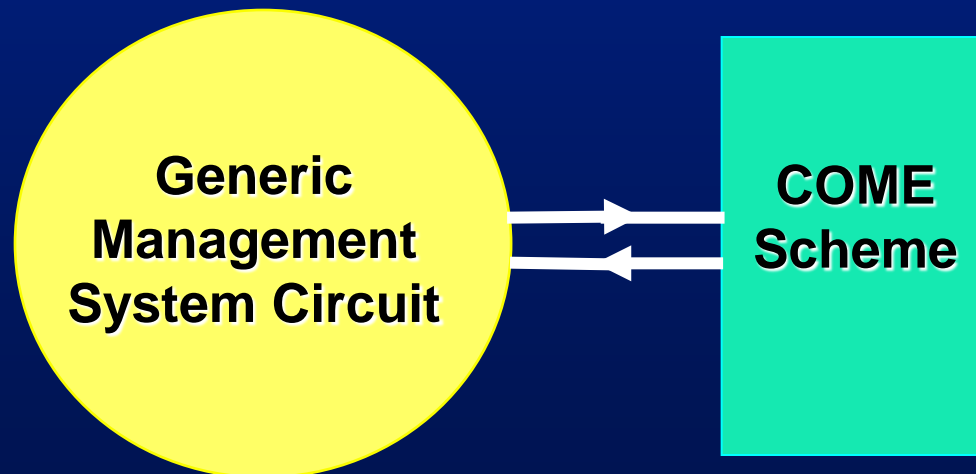
- The basic elements of a MS adopted are
  - Define : Goal & performance criteria
  - Organise : Items for achieving the goal
  - Implement : A scheme of interest
  - Measure : Outcome versus criteria
  - Review : Results to refine & feedback

# MANAGEMENT SYSTEM - 4

- A special and versatile MS is called the *Generic Management System Circuit*
- Main features of GMSC are
  - The elements are placed along a circuit
  - Can implement any non-absolute scheme
  - Used in schemes like safety, teaching....
- It is ideal for use in a COME scheme

# A COME METHODOLOGY

- It is based on GMSC for integrating with all phases of a product's life-cycle from design to.....decommissioning



# TYPICAL TASKS OF A PHASE

- Understand the work of the phase and
  - Identify environmental hazards (EH)
  - Assess EH risk levels
  - Compare risks of EH and other hazards
  - Reduce risk EH as appropriate
- Record and forward outputs to next phase

# COME SCHEME & EDUCATION

- A number of contributions that include
  - Good links-COME scheme & life cycle phase
  - Treating integration more effectively
  - Having a thinking attitude on caring
- Enhance caring link with training functions
- Offer a forum for applying research outputs

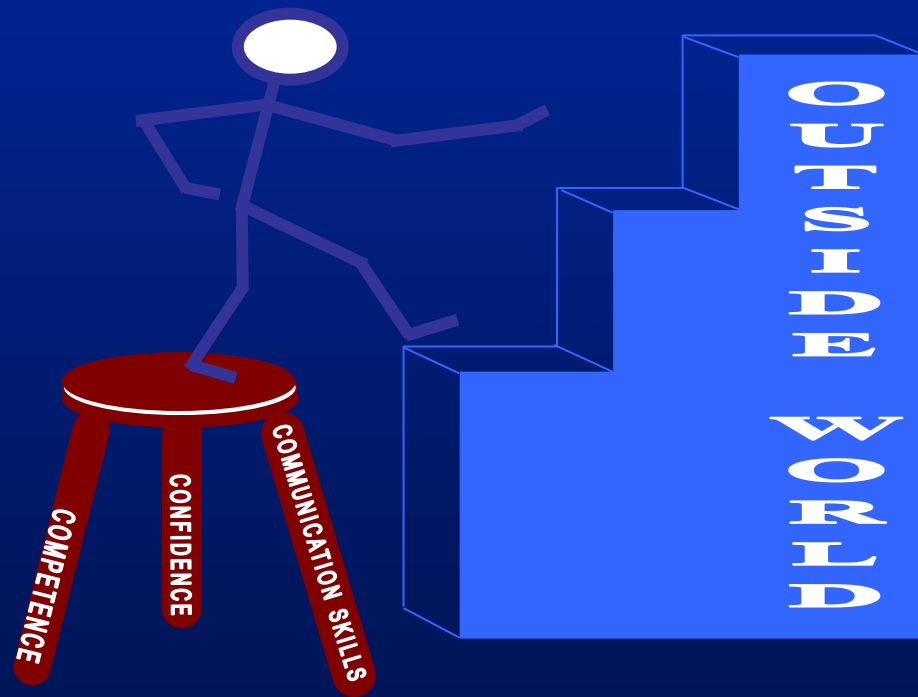
# SUPPORTING NEEDS

- I Effective implementation of COME needs a special education goal and this can be stated in graduate sector as follows:

*To produce graduates with ample and balance of competence, confidence and communication skill coupled with an entrepreneurial flair*



# 3C EDUCATION APPROACH



# CPD - 1

- CPD is also non absolute and should adopt
  - The COME methodology, i.e. Define goal and performance criteria and select/devise a range of delivering approaches
- Delivering teams must grasp the COME idea
- Choosing the criteria will be critical to success

# CPD - 2

- Desirable criteria include:
  - Focused and structured programmes
  - Highly interactive and involve team work
  - Feedback via brief presentations and Q & A
  - Sharing of knowledge and experience
  - Limited effort devoted to information transfer
  - Having some form of assessment

# WAY FORWARD

- There are several ways to advance COME
  - Use present methods but question them
  - Think COME from holistic point of view
  - Encourage sharing of experience
- Research is needed to devise alternative
  - Methods of assessing COME & its usage.

# CONCLUSIONS

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- Caring is a non-absolute entity and COME use must be linked to a management system
- COME scheme should be applied to all phases of a product's life-cycle
- Long term caring of offshore marine environment requires the presence of a positive caring culture