Abstract
There is a clear distinction between the knowledge base of Human Factors and Ergonomics (HF&E) and the processes needed to apply the knowledge in systems development. In this seminar, we will review the processes of Human Factors Integration (HFI). Following a brief historical introduction and a discussion of related systems theoretical concepts, the main steps of HFI will be reviewed beginning with the identification of a capability need and ending with a review of acceptance testing. In addition, the application of HFI concepts to safety management will also be described, using examples. We will end with two short case studies to contrast ‘HFI thinking’ with traditional ergonomics approaches. The former focuses on technology management and the processes for optimal exploitation of resources, whereas the latter is an extension of basic science to risk assessment. The former is an essential part of systems requirements specification and the latter features strongly in acceptance testing.

Human Factors Integration in the System Life Cycle
Speaker: Prof Bob Bridger
Affiliation: Head, Human Factors Department, Institute of Naval Medicine, UK
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Time: 7 – 8 PM
Place: Room G5-216, Academic Building 1, City University of Hong Kong

Speaker Bio
Dr RS Bridger is Head of the Human Factors Department at the Institute of Naval Medicine, UK. He is author of the textbook, ‘Introduction to Ergonomics’ published by CRC Press (3rd edition in English and 2nd edition in Chinese). He is a fellow and council member of the Institute of Ergonomics and Human Factors and is the Institute’s honorary general treasurer. He is author of over 70 articles published in peer-reviewed journals, 80 official reports and over 30 conference papers and 30 articles in non-peer reviewed journals. His main research interests are in HFI and in systems-focused applied research in HF&E. He is also interested in the application of psychometric techniques and concepts in HF&E and more generally, in HF&E education.