

Department of Systems Engineering and Engineering Management

Seminar Series

Two resource allocation problems in Global Health

Prof. Alec Morton

Professor

Department of Management Science
Strathclyde Business School
University of Strathclyde, UK

Date	11 January 2016 (Monday)
Time	10:30am - 11:30am
Venue	P6921, 6/F, AC1

Abstract

This talk will focus on a resource allocation of healthcare resources in low and middle income countries. The talk is stimulated by consultancy work for a major donor of development aid. We will discuss two problems – one of balancing “vertical” investments in disease programmes (such purchasing bednets for malaria) with investments which strengthen the health system as a whole (eg improving systems for vital registration); the other of deciding the correct balance of funding between a donor and a recipient. We will model these problems with quadratic and bilevel programmes respectively and discuss the structural behaviour of such models.

About the Speaker

Alec Morton has degrees from the University of Manchester and the University of Strathclyde. He has worked for Singapore Airlines, the National University of Singapore, and the London School of Economics, has held visiting positions at Carnegie Mellon University in Pittsburgh, Aalto University in Helsinki, and the University of Science and Technology of China in Hefei, and has been on secondment at the National Audit Office. His main interests are in decision analysis and health economics, and he is one of the developers of the STAR toolkit sponsored by the Health Foundation.

Alec has been active in the INFORMS Decision Analysis Society and the OR Society. He is on the Editorial Board of Decision Analysis and is an Associate Editor for the EURO Journal on Decision Processes, the Transactions of the Institute of Industrial Engineers, and OR Spectrum. Past consulting clients include the National Audit Office, the Department of Health, the Environment Agency, the Nuclear Decommissioning Authority and the Global Fund to Fight AIDS, Tuberculosis & Malaria. His papers have won awards from the International Society for Pharmacoeconomics and Outcomes Research and the Society for Risk Analysis, and his recent book Portfolio Decision Analysis with Jeff Keisler and Ahti Salo won the INFORMS Decision Analysis Society publication award.

Enquiry: 3442 2147

All are Welcome!

SEEM Seminar 2015-2016/017