

**INSTITUT SAINS MATEMATIK
UNIVERSITI MALAYA
SIRI KOLOKIUUM**

- Tajuk:** Diagnostic monitoring and validation in experimental design
- Penceramah :** E.J. Godolphin
Royal Holloway, University of London
- Tarikh :** 5 Disember 2007 (Rabu)
- Masa :** 3.00 pm – 4.00 pm
- Tempat :** MM3, INSTITUT SAINS MATEMATIK

Abstrak

Although the earliest published systematic study of experimental design seems to be the work of Leonhard Euler in 1782, inspired by the problem of the 36 officers, the pioneering work in the application of statistical principles in the design of experiments was begun around 100 years ago by Sir Ronald Fisher, who introduced the concept of the Analysis of Variance, and by Frank Yates. These authors stressed the importance of diagnostic monitoring and validation of the various assumptions of the experimental model and this tradition has occupied the attention of research workers up until the present day. This talk will discuss some of the more useful monitoring procedures which have emerged from this large body of research. Particular attention will be given to the use of residuals for detecting departures from assumptions of the model, the long established connectivity problem in experimental design and methods for avoiding the worst effects of missing values on the sensitivity of the analysis.

SEMUA DIJEMPUT HADIR