

Department of Systems Engineering and Engineering Management

Seminar Series

Dimensional Analysis and Statistics

Dr. Dennis K.J. Lin

University Distinguished Professor
Department of Statistics, The Pennsylvania State University, USA

Date:	22 May 2013 (Wednesday)
Time:	2:00pm (Tea/Coffee service at 3:00pm)
Venue:	B6619 (SEEM Conference Room), AC1

Abstract

Dimensional Analysis (DA) is a fundamental method in the engineering and physical sciences for analytically reducing the number of experimental variables prior to the experimentation. The principle use of dimensional analysis is to reduce from a study of the dimensions of the variables on the form of any possible relationship between those variables. The method is of great generality. In this talk, an overview/introduction of DA will be first given. A basic guideline for applying DA will be proposed, using examples for illustration. Some initial ideas on using DA for Data Analysis and Design of Experiment will be discussed.

About the Speaker

Dr. Dennis Lin is a University Distinguished Professor of Supply Chain and Statistics at Penn State University. His research interests are quality engineering, industrial statistics, data mining and response surface. He has published near 200 papers in a wide variety of journals. He serves or has served as co-editor for ASMBI and associate editor for various (about 10) journals. Dr. Lin is an elected fellow of ASA, IMS and ASQ, an elected member of ISI, a lifetime member of ICSA, and a fellow of RSS. He is an honorary chair professor for various universities, including a Chang-Jiang Scholar of China at Renmin University. His recent awards include Don Owen Award (ASA), Youden Address (ASQ) and Loutit Lecturer (SSC).

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All are Welcome!

SEEM Seminar 2012-2013/041