

***Nurturing Minds***  
***A Weekly Seminar Series to give impetus to development discourse and stimulate intellectual thought***

**PAKISTAN INSTITUTE OF DEVELOPMENT  
ECONOMICS**



**Topic: "Metafrontier Frameworks for the Study of Firm-Level Efficiencies and Technology Ratios"**

**DR GEORGE E BATTESE**

The seminar will be based on the Metfrontier frameworks paper co-authored by Dr George Battese. The paper uses the concept of a metafrontier to compare the technical efficiencies of firms that may be classified into different groups. The paper presents the basic analytical framework necessary for the definition of a metafrontier, shows how a metafrontier can be estimated using non-parametric and parametric methods, and presents an empirical application using cross-country agricultural sector data. The paper also explores the issues of technological change, time-varying technical inefficiency, multiple outputs, different efficiency orientations, and firm heterogeneity.

**Date: November 22, 2006**  
**Wednesday**

**Time: 11:00 am**

**Location Details**

**Seminar Hall  
Pakistan Institute of  
Development Economics  
Quaid-e-Azam University  
Campus  
Islamabad.**

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**About the Speaker...**

Dr George Battese is a name well-known to economists around the world. He has been working at the University of New England since 1964. With Doctor in Philosophy and Doctor in Economics, Dr Battese has numerous publications, chapter in books, over 55 published articles, 34 conference papers and other manuscripts to his credit. He has, during his professional career, supervised over 30 research students; been a referee for countless journals; and, been a member of various scholarly societies.

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**Your active participation will make this effort a turning point in the importance of intellectual contribution to our development processes!**

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