The IEA-ETS Research Institute (IERI) is organizing a five-day Autumn Academy. The academy will be held at the IEA Data Processing and Research Center in Hamburg, Germany from **November 5th to 9th, 2007.**

### How to Handle Multilevel Data - An Introduction into HLM
**Prof. Dr. Knut Schwippert, University of Hamburg, Germany**

Learners are individuals who attend schools. For anyone who is interested in teaching and learning this fact is obvious – but nevertheless in many statistical analysis this fact is often ignored. Many users of international databases prefer to summarize student data to a class mean or multiply every teacher record to each student in the class. Both approaches have specific advantages and disadvantages – namely the aggregation and dis-aggregation bias. In this workshop a strategy to handle data organized hierarchically will be presented. Next to some statistical background concerning sampling, multiple regression analysis, and variance de-composition the approach of „hierarchical linear models“ will be presented. Within the workshop first steps by using the HLM-program will guide to more individual hands-on training.

### Analysis of Categorical Data by Using SPSS
**Dr. Leslie Rutkowski, IEA Data Processing and Research Center (IEA DPC)**

Categorical data abound in international surveys such as TIMSS and PIRLS. This two day seminar will cover selected topics in applied categorical data analysis. Topics include:
- Measures of association between two or more categorical variables,
- Tests of association for categorical variables
- Binary and multinomial logistic regression

Participants will learn how to conduct these analyses in SPSS through interactive examples as well as hands-on exercises using IEA data. Participants should have knowledge of basic statistics and working knowledge of SPSS.

For registration information please contact the IEA – ETS Research Institute (IERI) at: IERInstitute@iea-dpc.de or visit our homepage at: www.IERInstitute.org