COURSE TITLE

Actuarial and Statistical Aspects of Reinsurance

DURATION

1 day

INSTRUCTOR 1

Hansjörg Albrecher, Prof. Dr., University of Lausanne, Switzerland

BIOGRAPHICAL SKETCH

After his studies in Graz, Limerick and Baltimore, Hansjörg Albrecher held faculty and visiting positions in Graz, Leuven and Aarhus, before he became Research Group Leader at the Radon Institute (Austrian Academy of Sciences) and Professor of Insurance Mathematics at the University of Linz. Now based at the HEC in Lausanne, his current research interests include risk theory, insurance risk modelling and stochastic simulation. He is an editor of the journal *Insurance: Mathematics and Economics,* serves on the editorial board of several further journals and book series, and has co-authored the second edition of the book "Ruin Probabilities".

INSTRUCTOR 2

Jozef L. Teugels, Prof. Em. Dr., K.U. Leuven, Belgium

BIOGRAPHICAL SKETCH

After his Ph.D. at Purdue, USA, Jef Teugels was Professor at the Katholieke Universiteit Leuven, with many visiting positions at other places (including Coimbra, Cambridge, St. Barbara, Vancouver, Chapel Hill, ANU). Jef co-authored many books (including *Regular Variation, Stochastic Processes for Insurance and Finance, Statistics of Extremes*, ..) and about 180 papers on stochastic processes, actuarial mathematics, statistics, multivariate discrete data, extreme value theory etc. He is Past President of the ISI, former President of the Bernoulli Society, and has been active in many committees and journal editorial boards. He has also co-edited the *Encyclopedia of Actuarial Science*.

COURSE DESCRIPTION

In this course we will describe in detail the principle of reinsurance, the different forms that are implemented in practice and their effects on the risk profile of an insurance portfolio. It will also be discussed how to choose a suitable reinsurance form in a given situation. Throughout we will emphasize the role of statistics in reinsurance activities.

SYLLABUS

- Forms of Reinsurance
- Optimality of Reinsurance Contracts
- Statistics for Reinsurance

TARGET AUDIENCE

The main target audience are young statisticians who have an interest in the application of probabilistic and statistical techniques in the field of insurance.