

Svenska Aktuarieföreningen (SAf) invites to

Lunch-to lunch course in Stochastic Reserving

There is an increasing demand for assessing the uncertainty of reserve estimates in non-life insurance. This activity is known as *stochastic reserving* and has a bearing on e.g. DFA modelling, solvency and the calculation of MVM (Market Value Margins) for outstanding claims reserves. This course aims to give participants an understanding of the methodologies and approaches in stochastic reserving and take forward best practices.

Teacher: Professor Richard Verrall, Faculty of Actuarial Science and Insurance, Cass Business School, City University, London.

Professor Verrall is one of the leading academics in this area and co-author of the well-known, influential paper by England and Verrall (Stochastic Claims Reserving in General Insurance, c, 8, pp 443-544). This paper will form the basis of the course.

Topics:

1. *Introduction to Stochastic Reserving*
2. *Bootstrapping*
Bootstrap estimates of reserve distributions
3. *Modeling*
Recursive Models & Mack's Model
4. *Strategic approaches*
Summary of other methods, including bootstrapping recursive models, bootstrapping Mack's model, Bayesian Methods, Bornhuetter-Ferguson.

Necessary equipment: The first 3 sessions will include a degree of computer and practical applications. These sessions will cover material in sufficient depth that a practical understanding of the methods can be obtained. ***Participants are urged to bring their own laptop PC with Excel.***

Prerequisites: The course will assume basic statistical knowledge, for example how to fit a straight line regression model and obtain standard errors of the parameter estimates. Some knowledge of GLMs is used, but a detailed knowledge is not necessary.

Venue: Länsförsäkringar, Tegeluddsv. 11-13, Stockholm. Room *Fredriksberg* Br02:0823. This is 5 min walk from the underground station *Gärdatet*, on the red line towards *Ropsten*.

Time: 24 September, 13.00h-17.00h plus 25 September, 8.30h-13.30h (incl. lunch the second day).

Maximum number of participants: 30. Priority is given first to members of Svenska Aktuarieföreningen and its sister organisations in the Nordic countries registered before August 31. If there are places left by that date, they are filled with those who have notified us before that date.

Registration (anmälan): in the first place via e-mail: <mailto:kansli@aktuarieforeningen.se>, otherwise via telephone to Kjell Andersson 08 – 5227 89 98 (Tuesday-Thursday) before August 31.

Cost (including lunch the second day): For members and associated members of SAf or our Nordic sister organisations registered by August 31 the cost is SEK 2 500, plus moms (VAT) 25%. For other participants registered by August 31 the cost is SEK 3 500, plus moms 25%. Late registrations are charged an extra SEK 1 000 plus moms.

Welcome!

Erik Hevrenge
Länsförsäkringar Liv
Ordförande Svenska Aktuarieföreningen

Esbjörn Ohlsson
Länsförsäkringar Sak

PS. There is an on-line introduction to stochastic claims reserving, which you can listen to before the course. This is at <https://talk.city.ac.uk/stochasticreserving>