

Invitation to a Course on Actuarial Modelling **with special consideration of Solvency II**

26th to 29th September 2012
Salzburg University

- Lecturers:** Dr. Nora Gürtler
Head of enterprise risk management
Generali Deutschland Holding AG, Cologne
Visiting professor at Salzburg University
- Frank Schepers
Managing director
Towers Watson, Cologne
Visiting professor at Salzburg University
- Dates:** Wednesday, 26th September, 9.00 – 17.30
Thursday, 27th September, 9.00 – 17.30
Friday, 28th September, 9.00 – 17.30
Saturday, 29th September, 9.00 – 12.30
- Contents:** The course covers all aspects of actuarial modelling required to become a fully qualified actuary according to the education syllabus of the International Actuarial Association and the core syllabus of Groupe Consultatif as well as according to the regulations of the Actuarial Association of Austria (AVÖ), which correspond to the regulations of the German Actuarial Association (DAV). For continuing professional development (CPD) the course counts as 21 hours. A survey on the application of models in insurance will be given, starting with basic definitions, the classification of models and an introduction to the modelling process. The focus will be on the objectives, selection, calibration and critical review of models in practice. Particular attention will be drawn to the role of actuarial models in the context of Solvency II. The course is designed not only for actuarial students, but also addresses experienced practitioners. Basic knowledge of insurance mathematics is required. Please find the structure of the course below.
- Course fees:** €498 without hotel accommodation, €858 with accommodation from Tuesday to Saturday (4 nights) in the Castellani Parkhotel including breakfast. Lunches and coffee breaks are included in the fees for all participants.
- Information:** For further information, please contact Sarah Lederer by e-mail (sarah.lederer@sbg.ac.at) with your telephone number. Your questions will be answered as soon as possible.

Registration: Please send the attached registration form by post or by e-mail (sarah.lederer@sbg.ac.at), or fax it to +43 662 8044 155, and arrange for the amount to be transferred (at no cost to the recipient) to the following account before 24th August 2012. After this date registration with hotel accommodation is only possible upon request. The registration and payment deadline for participants who do not need accommodation is 7th September 2012.

Salzburg Institute of Actuarial Studies (SIAS)

IBAN: AT 792 040 400 000 012 021 BIC: SBGSAT2S

Location: Faculty of Science, Lecture Hall 402
5020 Salzburg, Hellbrunner Straße 34

Course Structure

1 Basic concepts of modelling

- a. Definition and components of a model
- b. The Actuarial Control Cycle
- c. Main structure of Solvency II

2 Models in life insurance

- a. Profit testing
- b. Transition from the profit test to a model for the whole portfolio (components, structures, applications)
- c. Applications of liability models (e.g. Embedded Value, corporate planning, valuation of a life insurance portfolio)
- d. Basic concepts of an asset/liability model
- e. Applications of asset/liability models
- f. Standard and internal model in the context of Solvency II for life insurance

3 Models in non-life insurance

- a. General concepts and discussion of selected models in non-life insurance
 - Individual and collective model for the stochastic modelling of claims
 - Examples of models in non-life insurance
- b. Models for corporate planning and valuation
- c. Components and structure of a non-life insurance company model for Dynamic Financial Analysis (DFA)
 - Basic concepts and structure of an asset/liability model in the non-life context
 - Stochastic modelling of gross claims (attritional claims, large claims, natural catastrophes), validation and plausibility checks
 - Reinsurance model
 - Reserving risk
 - Modelling of dependency structures
 - Modelling of the development of claims over time
 - Corporate model
- d. Applications of a DFA model
- e. Standard and internal model in the context of Solvency II for non-life insurance