

**ROBERT BEAR, FCAS, MAAA, CPCU, ARIAS Certified Arbitrator**  
*Statistical Modeling Services*  
*RAB Actuarial Solutions, LLC*

Robert Bear's statistical modeling work has included the following accomplishments:

1. Consulting assignments modeling the risk that insurance loss reserves will develop adversely, especially for long-tailed lines of business.
2. Worked with PXRE Group's underwriting, actuarial, and systems professionals to measure the potential impact of each risk underwritten on economic capital requirements and profitability levels. This required extensive work with alternative catastrophe models.
3. Extensive experience fitting loss severity distributions and loss emergence patterns to insurance claims data.
4. Extensive experience pricing reinsurance treaties required the development of complex loss simulation models. This work has included numerous risk transfer analyses for finite reinsurance contracts.
5. Research performed as a consultant in developing and testing econometric loss reserving models.
6. Econometric research at Insurance Services Office leading to improved forecasting techniques in ratemaking (received outstanding performance award for Inflation Adjusted Trend Procedure).

In his statistical modeling work, he applies the Industrial Version of the Decisions Tools Suite of Excel add-ons developed by Palisade Corporation which includes the widely used @Risk simulation tool, StatTools for statistical analyses, Evolver for optimizing non-linear models, and neural tools for fitting neural networks which are predictive models.

As Chairperson of the Casualty Actuarial Society's Loss Simulation Model Working Party (LSMWP), he led the development of the Loss Simulation Model that can be used to test loss reserving methods and models. He contributed to the LSMWP paper on "Modeling Loss Emergence and Settlement Processes" that was published in the 2011 Winter CAS E-Forum.

Robert Bear also authored an article on "An Introduction to Extreme Value Theory," that was published in the May 2011 edition of the CPCU International Insurance Interest Group periodical. This topic has attracted much interest after recent natural and financial catastrophes.

Web Site: [www.rabsolutions.net](http://www.rabsolutions.net)

Blog: [www.rabactuarial.blogspot.com](http://www.rabactuarial.blogspot.com)