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PROCEEDINGS

OF THE

Casualty Actuarial Society

ORGANIZED 1914



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FOREWORD

Actuarial science originated in England in 1792 in the early days of life insurance. Because of the technical nature of the business, the first actuaries were mathematicians. Eventually, their numerical growth resulted in the formation of the Institute of Actuaries in England in 1848. Eight years later, in Scotland, the Faculty of Actuaries was formed. In the United States, the Actuarial Society of America was formed in 1889 and the American Institute of Actuaries in 1909. These two American organizations merged in 1949 to become the Society of Actuaries.

In the early years of the 20th century in the United States, problems requiring actuarial treatment were emerging in sickness, disability, and casualty insurance—particularly in workers compensation, which was introduced in 1911. The differences between the new problems and those of traditional life insurance led to the organization of the Casualty Actuarial and Statistical Society of America in 1914. Dr. I. M. Rubinow, who was responsible for the Society's formation, became its first president. At the time of its formation, the Casualty Actuarial and Statistical Society of America had 97 charter members of the grade of Fellow. The Society adopted its present name, the Casualty Actuarial Society, on May 14, 1921.

The purposes of the Society are to advance the body of knowledge of actuarial science applied to property, casualty, and similar risk exposures, to establish and maintain standards of qualification for membership, to promote and maintain high standards of conduct and competence for the members, and to increase the awareness of actuarial science. The Society's activities in support of this purpose include communication with those affected by insurance, presentation and discussion of papers, attendance at seminars and workshops, collection of a library, research, and other means.

Since the problems of workers compensation were the most urgent at the time of the Society's formation, many of the Society's original members played a leading part in developing the scientific basis for that line of insurance. From the beginning, however, the Society has grown constantly, not only in membership, but also in range of interest and in scientific and related contributions to all lines of insurance other than life, including automobile, liability other than automobile, fire, homeowners, commercial multiple peril, and others. These contributions are found principally in original papers prepared by members of the Society and published annually in the *Proceedings of the Casualty Actuarial Society*. The presidential addresses, also published in the *Proceedings*, have called attention to the most pressing actuarial problems, some of them still unsolved, that have faced the industry over the years.

The membership of the Society includes actuaries employed by insurance companies, industry advisory organizations, national brokers, accounting firms, educational institutions, state insurance departments, and the federal government. It also includes independent consultants. The Society has two classes of members, Fellows and Associates. Both classes require successful completion of examinations, held in February, and in the spring and fall of each year in various cities of the United States, Canada, Bermuda, and selected overseas sites. In addition, Associateship requires completion of the CAS Course on Professionalism.

The publications of the Society and their respective prices are listed in the Society's *Yearbook*. The *Syllabus of Examinations* outlines the course of study recommended for the examinations. Both the *Yearbook*, at a charge of \$40 (in U.S. funds), and the *Syllabus of Examinations*, without charge, may be obtained from the Casualty Actuarial Society, 1100 North Glebe Road, Suite 600, Arlington, Virginia 22201.

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**1998 PROCEEDINGS
CONTENTS OF VOLUME LXXXV**

	Page
PAPERS PRESENTED AT THE MAY 1998 MEETING	
A Comparison of Property/Casualty Insurance Financial Pricing Models	
Stephen P. D'Arcy and Richard W. Gorvett	1
Smoothing Weather Losses: A Two-Sided Percentile Model	
Curtis Gary Dean, David N. Hafling, Mark S. Wenger, and William F. Wilson	89
Investment-Equivalent Reinsurance Pricing	
Rodney E. Kreps	101
Workers Compensation Excess Ratios: An Alternative Method of Estimation	
Howard C. Mahler	132
An Application of Game Theory: Property Catastrophe Risk Load	
Donald F. Mango	157
A Buyer's Guide for Options on a Catastrophe Index	
Glenn G. Meyers	187
The Impact of Investment Strategy on the Market Value and Pricing Decisions of a Property/Casualty Insurer	
Trent R. Vaughn	211
DISCUSSION OF PAPER PUBLISHED IN VOLUME LXXXVII	
Reinsurer Risk Loads From Marginal Surplus Requirements	
Rodney E. Kreps	
Discussion by Paul J. Kneuer	245
DISCUSSION OF PAPER PUBLISHED IN VOLUME LXXXIII	
Estimating the Premium Asset on Retrospectively Rated Policies	
Miriam Perkins and Michael T. S. Teng	
Discussion by Sholom Feldblum	274

**1998 PROCEEDINGS
CONTENTS OF VOLUME LXXXV**

	Page
DISCUSSION OF PAPER PUBLISHED IN VOLUME LXXXIV	
Retrospective Rating: 1997 Excess Loss Factors William R. Gillam and Jose Couret Discussion by Howard C. Mahler	316
ADDRESS TO NEW MEMBERS—MAY 18, 1998	
P. Adger Williams	345
MINUTES OF THE MAY 1998 MEETING	
350	
PAPERS PRESENTED AT THE NOVEMBER 1998 MEETING	
Personal Automobile: Cost Drivers, Pricing, and Public Policy John B. Connors and Sholom Feldblum	370
The Mechanics of a Stochastic Corporate Financial Model Gerald S. Kirschner and William C. Scheel	404
Credibility With Shifting Risk Parameters, Risk Heterogeneity, and Parameter Uncertainty Howard C. Mahler	
1. Introduction	455
2. Shifting Risk Parameters	461
3. Parameter Uncertainty	464
4. Risk Heterogeneity	480
5. Shifting Risk Parameters, Risk Heterogeneity, and Parameter Uncertainty	509
6. Illustrative Examples of Calculating Credibilities	519
7. Classification Rate Relativities	531
8. Use of Data from Other States	555
9. A Ratemaking Example	564
10. Experience Rating	576
11. Miscellaneous	610
12. Summary and Conclusions	617
A Graphical Illustration of Experience Rating Credibilities Howard C. Mahler	654

**1998 PROCEEDINGS
CONTENTS OF VOLUME LXXXV**

	Page
The Myers–Cohn Profit Model, A Practical Application	
Howard C. Mahler	689
Studying Policy Retention Using Markov Chains	
Joseph O. Marker	775
Testing the Assumptions of Age-To-Age Factors	
Gary G. Venter	807
Aggregation of Correlated Risk Portfolios: Models and Algorithms	
Shaun Wang	848
Implementation of Proportional Hazards Transforms in Ratemaking	
Shaun Wang	940
Discussion by Gary G. Venter	980
DISCUSSION OF PAPER PUBLISHED IN VOLUME LXXXIII	
The Complement of Credibility	
Joseph A. Boor	
Discussion by Sholom Feldblum	991
ADDRESS TO NEW MEMBERS—NOVEMBER 9, 1998	
Michael A. Walters	1034
PRESIDENTIAL ADDRESS—NOVEMBER 9, 1998	
“There is More to Do”	
Mavis A. Walters	1040
MINUTES OF THE NOVEMBER 1998 MEETING	1048
REPORT OF THE VICE PRESIDENT—ADMINISTRATION	1069
FINANCIAL REPORT	1076

**1998 PROCEEDINGS
CONTENTS OF VOLUME LXXXV**

	Page
1998 EXAMINATIONS—SUCCESSFUL CANDIDATES	1077
 OBITUARIES	
James M. Cahill	1118
Charles Desjardins	1120
K. Arne Eide	1122
Robert C. Perry	1124
Paul E. Singer	1125
Emil J. Strug	1127
Paul A. Verhage	1129
Herbert E. Wittick	1131
 INDEX TO VOLUME LXXXV	 1132

NOTICE

Papers submitted to the *Proceedings of the Casualty Actuarial Society* are subject to review by the members of the Committee on Review of Papers and, where appropriate, additional individuals with expertise in the relevant topics. In order to qualify for publication, a paper must be relevant to casualty actuarial science, include original research ideas and/or techniques, or have special educational value, and must not have been previously copyrighted or published or be concurrently considered for publication elsewhere. Specific instructions for preparation and submission of papers are included in the *Yearbook* of the Casualty Actuarial Society.

The Society is not responsible for statements of opinion expressed in the articles, criticisms, and discussions published in these *Proceedings*.

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