

ASTIN BULLETIN

A Journal of the International Actuarial Association

EDITORS:

Hans Bühlmann
Switzerland

D. Harry Reid
United Kingdom

Co-EDITORS:

Alois Gisler
Switzerland

David Wilkie
United Kingdom

EDITORIAL BOARD:

Björn Ajne
Sweden

Marc Goovaerts
Belgium

Jacques Janssen
Belgium

William S. Jewell
USA

Jean Lemaire
Belgium/USA

Walther Neuhaus
Norway

Jukka Rantala
Finland

Axel Reich
Germany

CONTENTS

EDITORIAL AND ANNOUNCEMENTS

Guest Editorial	1
XXI ASTIN Colloquium, New York, 1989	5

ARTICLES

E. KREMER The Asymptotic Efficiency of Largest Claims Reinsurance Treaties	11
E. WYLER Pareto Optimal Risk Exchanges and a System of Differential Equations: a Duality Theorem	23
J. LEMAIRE Fuzzy Insurance	33
W. HÜRLIMANN Pseudo Compound Poisson Distributions in Risk Theory	57
J. DHAENE Distributions in Life Insurance	81
W.S. JEWELL Predicting IBNYR Events and Delays II. Discrete Time	93

SHORT CONTRIBUTIONS

B. CHAN Ruin Probability for Translated Combination of Exponential Claims	113
Book Reviews	115

Centerick

EDITORIAL POLICY

ASTIN BULLETIN started in 1958 as a journal providing an outlet for actuarial studies in non-life insurance. Since then a well-established non-life methodology has resulted, which is also applicable to other fields of insurance. For that reason *ASTIN BULLETIN* will publish papers written from any quantitative point of view—whether actuarial, econometric, engineering, mathematical, statistical, etc.—attacking theoretical and applied problems in any field faced with elements of insurance and risk.

ASTIN BULLETIN appears twice a year, each issue consisting of about 80 pages.

Details concerning submission of manuscripts are given on the inside back cover.

MEMBERSHIP

ASTIN is a section of the International Actuarial Association (IAA). Membership is open automatically to all IAA members and under certain conditions to non-members also. Applications for membership can be made through the National Correspondent or, in the case of countries not represented by a national correspondent, through a member of the Committee of ASTIN.

Members receive *ASTIN BULLETIN* free of charge.

SUBSCRIPTION AND BACK ISSUES

ASTIN BULLETIN is published and printed for ASTIN by Ceuterick s.a., Brusselsestraat 153, B-3000 Leuven, Belgium.

All queries and communications concerning subscriptions, including claims and address changes, and concerning back issues should be sent to Ceuterick.

The current subscription or back issue price per volume of 2 issues including postage is BEF 1700.

INDEX TO VOLUMES 1-13

The Cumulative Index to Volumes 1-13 is also published for ASTIN by Ceuterick at the above address and is available for the price of BEF 340.

Copyright © 1989 Ceuterick