

ARCH RESEARCH CLEARING HOUSE
2000.1

CONTENTS

Editor's Comments	vii
Conference Coordinator's Comments	viii
Program	x
List of Participants.....	xiv
Conference Announcement.....	xxiii
A Realistic Simulation of a Fixed Income Portfolio	1
Irwin Vanderhoof	
Pricing of Credit Derivatives	5
David Li	
The Effective Duration of Liabilities for Property-Liability Insurers	7
Richard W. Gorvett and Steven P. D'Arcy	
A Class of Distortion Operators for Pricing Financial and Insurance Risks	19
Shaun S. Wang	
An Interest Rate Generator for Argentina	45
Sarah L.M. Christiansen	
Optimal Capital Growth and Dynamic Asset Allocation	53
Hans U. Gerber and Elias S.W. Shiu	
Modeling Interest Rates in Cash-Flow Testing Using Resampling Methodologies	87
Krzysztof M. Ostaszewski and Grzegorz A. Rempala	
Joint Task Force on Academic Relations	111
James Hickman and Steve Radcliffe	

CONTENTS (Continued)

Adaptive Nonlinear Modes	137
Arnold F. Shapiro and R. Paul Gorman	
Dependence in the Individual Risk Model	157
Étienne Marceau, H��l��ne Cossette, Patrice Gaillardetz, and Jacques Rioux	
Summary of Social Security Administration Projections of the OASDI System	177
Edward W. (Jed) Frees	
A Comprehensive Model for the Pricing of Warranty Insurance	229
Jeffrey McSweeney, Rajesh Barnwal, and J.C. Hankins	
Year 2000 and Beyond: SOA Course 7—A Preview	239
Warren Luckner	
The Puzzle of Human Aging and Longevity	247
Esther Portnoy	
Decomposition of Generalized Gini Coefficients	253
S. David Promislow and Virginia R. Young	
Research Questions Arising from the GATT Mortality Study	263
Tom Edwals	
Canadian Pensioners Mortality 1983–1992 Study	271
Louis Adam	
Valuing Pension Entitlements on Marriage Breakdown in Canada	273
Robin Damm	
Efficient Amortization of Actuarial Gains and Losses in Pension Plans	275
M. Iqbal Owadally and Steven Haberman	

CONTENTS (Continued)

Retirement: A Multi-Phased Transition	319
Robert L. Brown	
A Proposed Unified Valuation System	337
David Sandberg	
S-Curve Reserve for Universal Life	339
Lone-Young Yee	
Pension Plan Surplus: What to Give and How to Give It	349
Claire Bilodeau	
A Stochastic Definition of Future Shares	351
Jose Garrido and Rodrigo Arias	
Some Pricing Formulas for Equity-Indexed Annuities	353
Serena Tiong	
Ruin Probabilities in Life Insurance	355
Benny Levikson, E. Frostig and S. Haberman	
Bridging Theory and Practice	365
Stuart Klugman	
Credibility—From the Eyes of the Customer	367
Mike Round	
Credibility Evaluation and the Tails of the Exponential Dispersion Family	387
Zinoviy Landsman and Udi E. Makov	
Risk Drivers Revealed: Quantile Regression	397
Steven Craighead	

CONTENTS (Continued)

Renewal and Non-Homogeneous Poisson Processes with Periodic Intensities	413
Manuel Morales	
Actuarial Modeling with MCMC and BUGS	427
David Scollnik	
Asymptotics in the Subexponential Case	495
Diego Hernandez-Rangel	
Estimating Between Line Correlations Generated by Parameter Uncertainty	505
Glenn Meyers	
Is Mortality Improvement in Our Future?	531
Scott Haglund, Joan Hentschel, Mark Rowley, and Linda Wilson	
Dependent Causes of Death	543
Emiliano A. Valdez	
The Distribution of Insurance Benefits with Frailty	571
Emiliano A. Valdez and George Wong	
On Robustness in Risk Theory	591
Jacques Rioux and Étienne Marceau	
Valuation of Equity-Indexed Annuities	619
X. Sheldon Lin	
Internet Based Empirical Study on Insurance Companies in Austria	623
Thomas Benesch	