

**TRANSACTIONS OF SOCIETY OF ACTUARIES  
1982 VOL. 34**

These *Transactions* are published annually by the Society of Actuaries, successor to The Actuarial Society of America and the American Institute of Actuaries, in lieu of *Transactions* and *The Record* heretofore published, respectively, by the two former organizations.

NOTICE

The Society assumes no responsibility for statements made or opinions expressed in the articles, criticisms, and discussions published in these *Transactions*.

CONTENTS OF VOLUME XXXIV

	PAGE
OFFICERS AND BOARD OF GOVERNORS . . . . .	vii
OFFICE OF THE SOCIETY . . . . .	viii
ADDRESS OF THE PRESIDENT, ROBERT H. HOSKINS . . . . .	1
PAPERS:	
Constant Replacement Ratios in Retirement: A Theoretical Approach. Barnet N. Berin and Anthony B. Richter . . . . .	9
Discussion . . . . .	21
Pension Plans in an Inflationary Environment. Jeffrey J. Furnish . . . . .	29
Discussion . . . . .	45
Indexing of Federal Retirement Systems for Inflation. Edwin C. Hustead and Toni S. Hustead . . . . .	57
Discussion . . . . .	75
OASDI Earnings Test. Warren R. Luckner . . . . .	79
Discussion . . . . .	93
The Application of the Commissioners Annuity Reserve Method to Fixed Single Premium Deferred Annuities. Jay M. Jaffe . . . . .	103
Discussion . . . . .	117
Indexing Pensions—Protecting Postretirement Purchasing Power. Gerald Richmond and Mark L. Rosen . . . . .	157
Discussion . . . . .	173
IRS Limitations on Integration of Defined Benefit Pension Plans with United States Social Security. Vincent Amoroso . . . . .	195
Cumulative Antiselection Theory. William F. Bluhm . . . . .	215
Discussion . . . . .	233
Integration of Private Pension Plans with Social Security. Yuan Chang, John N. Feldtmose, Jeffrey J. Furnish, Michael J. Gulotta, Douglas M. Hodes, Frederic T. Lhamon, Lawrence N. Margel, Karen Mitchell, Stewart G. Nagler, A. Frederick Rohlfs, Jr., Donald E. Sanning, and Robert J. Schnitzer . . . . .	247
Discussion . . . . .	271

Mortality Cost Valuation of Underwriting Requirements. Robert R. Reitano . . . . . 277  
 Discussion . . . . . 323

An Extension of the Whittaker-Henderson Method of Graduation. Walter B. Lowrie . . . . . 329  
 Discussion . . . . . 351

Actuarial Aspects of the Changing Canadian Demographic Profile. Robert L. Brown . . . . . 373  
 Discussion . . . . . 391

Compartment Model Methods in Estimating Cancer Costs. H. Dennis Tolley, Kenneth Manton, and Eric Stallard . . . . . 399

Profitability as a Return on Total Capital. Donald R. Sondergeld . . . 415  
 Discussion . . . . . 431

The Process of Premium Formulation. Robert D. Shapiro . . . . . 435  
 Discussion . . . . . 447

Purchase Accounting: A Fresh Look. Douglas A. Eckley . . . . . 449  
 Discussion . . . . . 465

Recent Experience under the Medicare Program. Ronald V. Gresch and Kenneth K. Leong . . . . . 485  
 Discussion . . . . . 557

Integer Functions and Life Contingencies. Elias S. W. Shiu . . . . . 571  
 Discussion . . . . . 591

Medical Care and Services in Canada. Frank G. Reynolds . . . . . 601

Regulatory Monitoring of Individual Health Insurance Policy Experience. John B. Cumming . . . . . 617  
 Discussion . . . . . 635

FINANCIAL REPORT . . . . . 641

OBITUARY . . . . . 647

Marian R. Albright  
 Alexander J. Bailie  
 Neil Douglas Campbell  
 Reginald David Ottley Catling  
 William R. Cochrane  
 Thomas A. DeSelm  
 Walter Stewart Dewar, Jr.  
 John K. Dyer, Jr.  
 John James Elliott  
 Philip J. Freda  
 Jacques J. Frigon

Charles W. Gamerdinger	
David Griswold Goddard	
Marcus Gunn	
John V. Hanna	
Milton B. Hardin	
L. Ronald Hill	
Ralph E. Kennon	
Allan F. Lebourveau	
George Henry Maddex	
Leslie Reynolds Martin	
W. Walter Mincks	
Joseph Musher	
Ruth Helen Peck	
Elder A. Porter	
A. Ross Poyntz	
George T. Prentice	
Emeterio Roa, Sr.	
Harry Saunders	
John P. Tillinghast	
Stewart E. Tinker	
Edward B. Williams	
Irving S. Wolfson	
MINUTES OF THE REGIONAL MEETING, APRIL 1-2, 1982 . . . . .	665
MINUTES OF THE REGIONAL MEETING, APRIL 29-30, 1982 . . . . .	669
MINUTES OF THE REGIONAL MEETING, MAY 24-25, 1982 . . . . .	673
MINUTES OF THE ANNUAL MEETING, OCTOBER 18-20, 1982 . . . . .	675

