

**TRANSACTIONS OF SOCIETY OF ACTUARIES**  
**1949 VOL. 1 NO. 1**

These "Transactions" are published periodically 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 is not responsible for statements made or opinions expressed in the articles, criticisms and discussions published in these *Transactions*.

**CONTENTS OF NO. 1**

**NOVEMBER, 1949**

|  | <b>PAGE</b> |
|--|-------------|
| OFFICERS AND BOARD OF GOVERNORS, FELLOWS, AND ASSOCIATES . . . . .                 | v           |
| ADDRESS OF THE PRESIDENT, EDMUND M. MCCONNEY:                                      |             |
| The Responsibilities of "Scientific Financiers" . . . . .                          | 1           |
| PAPERS:  |             |
| The Origin of the Society of Actuaries. Reinhard A. Hohaus . . . . .               | 10          |
| The Actuarial Examinations. Charles A. Spoerl . . . . .                            | 42          |
| Discussion . . . . .   | 69          |
| Some Reflections on Fund Accounts. Leonard H. McVity . . . . .                     | 106         |
| Discussion . . . . .   | 119         |
| Some Actuarial Observations on Agency Management Problems                          |             |
| Charles F. B. Richardson . . . . .   | 131         |
| Discussion . . . . .   | 159         |
| Term Conversion Option. Elgin G. Fassel . . . . .                                  | 177         |
| Discussion . . . . .   | 194         |
| Pensions—1949. Dorrance C. Bronson . . . . .                                       | 219         |
| Discussion . . . . .   | 256         |
| An 80-Column Punched Card for Mortality Statistical Purposes and                   |             |
| the Procedure Followed in Its Preparation. John F. Ryan . . . . .                  | 295         |
| Discussion . . . . .   | 313         |
| On the Derivation of Discrete Interpolation Formulas. Thomas N. E.                 |             |
| Greville . . . . .   | 343         |
| Discussion . . . . .   | 358         |
| A New Mortality Basis for Annuities. Wilmer A. Jenkins and Edward A. Lew . . . . . | 369         |
| Discussion . . . . .   | 467         |
| Prudential 1946-1948 Disability Experience. Zehman I. Mosesson . .                 | 499         |
| Discussion . . . . .   | 510         |

|  | PAGE |
|--|------|
| Actuarial Note: A Valuation Method for Retirement Income Endowment Policies After Life Contingencies Have Ceased. Charles N. Walker and William E. Lewis . . . . . | 525  |
| Discussion . . . . .   | 529  |
| <b>DIGEST OF INFORMAL DISCUSSION:</b>  |      |
| Mortality . . . . .  | 539  |
| Expenses . . . . .   | 546  |
| Dividends . . . . .  | 548  |
| Social Insurance . . . . .   | 553  |
| Group Insurance . . . . .  | 563  |
| Employee Welfare Plans . . . . .   | 568  |
| Actuarial Profession . . . . .   | 575  |
| <b>LEGAL NOTES. B. M. ANDERSON</b> . . . . .   | 577  |
| <b>FINANCIAL REPORT</b> . . . . .  | 583  |
| <b>REPORT OF THE COMMITTEE ON MORTALITY UNDER ORDINARY INSURANCES AND ANNUITIES:</b>   |      |
| Mortality under Standard "Ordinary" Insurance Issues . . . . .   | 584  |
| Mortality on Policies for Large Amounts . . . . .  | 594  |
| Mortality under Individual Immediate Annuities . . . . .   | 606  |
| Code for Mortality Investigations . . . . .  | 617  |
| <b>REPORT OF THE COMMITTEE ON GROUP MORTALITY AND MORBIDITY</b> . . . . .  | 622  |
| <b>REPORT OF THE COMMITTEE ON AVIATION</b> . . . . .   | 624  |
| <b>BOOK REVIEWS AND NOTICES</b> . . . . .  | 630  |
| <b>OBITUARY</b> . . . . .  | 645  |
| Oswald James Arnold  |      |
| Amédée Bégault   |      |
| Frank J. Haight  |      |
| Michael Alexander Mackenzie  |      |
| Lloyd Arthur Heber Warren  |      |
| <b>MINUTES OF THE ANNUAL MEETING, NOVEMBER 14, 15 AND 16, 1949</b> . . . . .   | 652  |
| <b>INDEX</b> . . . . .   | 661  |