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BOOK REVIEW

The Future of Risk, pp. 219, published by the Risk Studies Foundation, 205 East 42nd Street, New York, NY 10017, \$15.

by Geoffrey N. Calvert

This book contains the papers that were to have been delivered at a seminar in New York in the late fall of 1978. The seminar was never held, but the papers are available in this form.

Each section is written in the style of its author, and no editorial steps have been taken to introduce uniformity of treatment or style or to open or conclude the series. It is, therefore, natural that this volume, while containing much that is valuable and pertinent to the work of actuaries, risk managers, and those who work with human and financial values in a world of change and uncertainty, seems incomplete and illassorted.

Subject to this limitation, the serious reader will find in this book many nuggets of information, and a variety of innovative and challenging viewpoints and policy suggestions. Following is a sampling from its 11 sections:

Orville Freeman, discussing geopolitical and global economic risks, points to the rise of terrorism in the presence of a widening gap of wealth and poverty between the richest and poorest nations. Nine hundred million humans, living in grinding poverty and always hungry, can participate through television in the lives of the affluent while nuclear weapons proliferate—a disorienting and explosive situation.

Prof. Dan R. Anderson, in a competent article, covers energy-related risks in which the scale of potential losses and disasters has escalated far beyond the insurance market's capacity. As power plants and tankers have grown (a billion dollars for a nuclear power plant and potential damage of many times this amount from a serious accident), the "law of large numbers exposed to risk," which underlies the normal insurance principle, is negated. With sufficient insurance unavailable, some corporations are forced to self-insure at the top end of the risk (e.g., above a \$250 million limit for an exposure in the billions).

R. Morton Darrow, commenting on health services, urges the insurance in-

dustry to keep up with the times by providing product liability coverage related to new drugs and medical hardware, electronic medical record keeping, incentives and rehabilitation services to get disability claimants back to work, life care for retirees, and innovative and competitive approaches to medical cost control.

Anna M. Rappaport, FSA, deals with social changes and the challenges confronting those who design employee benefits in the context of a needed reversal of the early retirement trend, assertion of women's rights, job-sharing, sabbaticals, periodical re-education, performance evaluations, demotions, and pressures to index private pensions, to choose the time of death, to engage in multiple careers, to continue medical benefits during sabbaticals, to live under new and changing lifestyles.

Rick J. Carlson, J.D., focuses on the rising crime rates and falling scholastic standards among the young, tracing these effects to a combination of stressers including disintegration of family life, environmental pollution, nutritional and dietary factors, degradation of lifestyles, drugs, television, lack of exercise, and other stressers which interact and compound.

Cynthia Huston covers computer crime, concluding that, where knowledge is power, our growing dependence on computers exposes us to crimes on a scale and at a speed never dreamed of — a frightening vulnerability.

William C. Ashley describes how Sears Roebuck seeks to minimize "organization risk" by a systematic, ongoing study of economical, social, and similar trends which together provide the context within which the company operates.

Three papers by Schneider, Goldberg, Kunreuther and Kleindorfer, deal with climatic risk, the technical uncertainty of risk assessment (using Denver's air pollution as an example), and the problems of coping with natural disaster. Most disturbing are the uncertain consequences of continuing to burn fossil fuels, thus releasing CO_2 into the air. Man has already caused a 10% increase in atmospheric CO2-one-half in the last 20 years-and this is projected to increase to 25% by 2000 A.D. and 100% by 2050. The resulting "greenhouse effect" might cause a 2-3° increase in temperature, changing the whole character of vast areas of the earth, flooding coastal areas, and inundating 10 trillion (1977) dollars worth of property (including one-third of Florida).

Robert Theobald's section ends the book with a rambling discussion of the trend to centralization and giantism, an appeal to human values, and an interesting observation that, unbelievably, there is no theory of risk in economics —yet each of us must deal in business and in private with risk and uncertainty. "The Chinese are right," he closes. "Crises bring not only danger but also opportunity."

This book does not cover all the major lisks one can name quite readily. For example, there is no reference to the possible impact of genetic engineering, predetermination of sex, prolongevity, global overpopulation, energy exhaustion, space colonization, deforestation, the Rasmussen report (on nuclear accident probabilities), the availability of food or water, laser technology, solar satellites as a source of energy, or new forms of war. The coverage provided, while interesting, informative, and insurance-oriented in places, is neither complete nor well balanced. But it is well worth reading. \Box

PACIFIC INSURANCE CONFERENCE, BANFF 1979

by Archie R. McCracken

From 17 countries to the Canadian Rockies last June came 224 executives of life companies and related organizations, many with their wives, to enjoy P.I.C.'s 9th biennial conference—a stimulating program, good fellowship and the beautiful setting.

The major delegations were from the United States (56 executives), Canada (52), Japan (32), Australia (28), and the Philippines (16). The theme was "Change and Innovation." At the four business days 35 papers on the following topics were discussed and supplemented:

- I. Change and Innovation in Legislation and Consumerism
- II. Change and Innovation in Product Design
- III. Change and Innovation in Marketing

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