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First-Year Premiums for TIAA 5-Year Renewable Term Policies

Policy Amount	\$50,000	\$100,000	\$150,000	\$200,000	\$250,000
Issued to men aged 35					
First-year premium	\$126.75	\$169.00	\$253.50	\$338.00	\$380.25
Premium per \$1,000	\$2.53	\$1.69	\$1.69	\$1.69	\$1.52
Issued to women aged 35					
First-year premium	\$110.25	\$147.00	\$220.50	\$294.00	\$330.75
Premium per \$1,000	\$2.20	\$1.47	\$1.47	\$1.47	\$1.32

As you can see, premium rates for policies of \$100,000 to \$249,000 are ⅓ less than those for smaller policies, and for policies of \$250,000 or more, they're 40% less. Substantially lower first-year premiums for all ages and big discounts for larger policies encourage everyone to consider the higher levels of family protection they may have felt they just couldn't afford until now.

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Note to present TIAA policyowners: MOD ONE premium rates apply only to policies issued on or after October 1, 1982, but cash dividends payable in accordance with the 1982 scale will continue to provide equitable treatment for policies issued prior to that date.

*Modified first-year premium.



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Please mail me the facts about new TIAA MOD ONE life insurance policies with personal illustrations of low-cost Term policies for my age.

Name _____ Birthdate _____

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Spouse's name _____ Birthdate _____

SCIENCE

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COVER

Four-winged fly (Diptera) produced by combining three mutants of the bithorax gene complex in *Drosophila*. The haltere-bearing or third thoracic segment closely resembles the wing-bearing or second thoracic segment as the result of reduction in function of three genes of the complex: *abx*, *bx³*, and *pbx*. See page 23. [E. B. Lewis, California Institute of Technology, Pasadena 91125]

American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to prove the effectiveness of science in the promotion of human welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Science serves its readers as a forum for the presentation and discussion of important issues related to the advancement of science, including the presentation of minority or conflicting points of view, rather than by publishing only material on which a consensus has been reached. Accordingly, all articles published in *Science*—including editorials, news and comment, and book reviews—are signed and reflect the individual views of the authors and not official points of view adopted by the AAAS or the institutions with which the authors are affiliated.

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A Transition for *Science*

As the flagship of AAAS, *Science* occupies a special place in the affairs of the Association even as it does in scientific communication both at home and across national boundaries. Its editorship is crucial to its reputation and influence. It was no small matter, then, for President E. Margaret Burbidge to make it known at the Annual Meeting in Detroit that Philip H. Abelson has signified his intention to step aside as Editor of *Science*. The current plan is that he will retire at the end of 1984.

The Board of Directors, which will select an Editor to follow Philip Abelson, will have its hands full. In 1962, when Dael Wolfe prevailed on Abelson to take on the editorship, the scene was relatively quiet. American science was in its full flood of expansion, man had not yet strolled the moon, energy was cheap and plentiful, research budgets were robust, the national economy seemed indefinitely secure, foreign technological competition was no problem, the computer revolution was in its early adolescence, and the promise of biotechnology was yet to be realized. The field of science journalism, though already making its mark, was still a minor factor in the world of the media.

Now the situation is very different. Scientific and technological productivity, in the United States and elsewhere, is at a peak. National interests are coupled, with increasing intricacy, to science and innovation. Technological change is altering accepted social structures and influencing political agendas. Ethical issues of baffling complexity have emerged to trouble the scientific conscience. The state of scientific and engineering education, long buried in neglect, has become a major worry. Scientific and technical complexity is at the center of diplomatic and national security fencing. Dilemmas of scale proliferate with the advance of knowledge and its intimate union with power. A new problem of democracy is that of enhancing scientific and technical literacy as a basis for negotiating problems of choice.

As though all this were not enough, the transition of Editors is fated to occur when scientific publishing and communication is itself at a crossroads, facing challenges from innovative telecommunications and entrepreneurial interventions that seem certain to confound and disturb what were thought to be long-settled practices in journal publishing and library services. And adding to the complications is the very real possibility of government interference with timely and uncensored publication of scientific articles and reports on grounds of national security and technology transfer.

The succession of Editors of *Science* thus will reflect both continuity and discontinuity, the most striking characteristics of science itself. The Association's stakes in the choice of a new Editor are clear enough, but they are not greater than the stakes of the scientific community, which has regarded *Science* as a known and reliable quantity for more than two decades. The role of the journal is certainly not that of a trade paper speaking for a scientific constituency. It has never been that, for it has not cared to treat scientific aberrations with tenderness or compassion, nor pandered to political favor. It is not likely to change its habits.

In the near future, the Board of Directors will make known its approach to the search for a new Editor. Meanwhile, it will be doing some heavy thinking. What scarcely needs saying is that the example and performance of Philip Abelson will go far to shape what is to come.—WILLIAM D. CAREY

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1982 AAAS SUMMARY FINANCIAL STATEMENTS

The following financial information has been excerpted from the audited financial statements of the AAAS

BALANCE SHEET

	31 December	
	1982	1981
Assets		
Current assets		
Cash	\$ 131,916	\$ 485,697
Accounts receivable	2,080,147	3,124,383
Inventory of publications—at cost	207,051	103,740
Prepaid expenses	2,942,355	1,990,488
Total current assets	5,361,469	5,704,308
Investments—at market (note B)	13,479,202	11,814,085
Property and equipment	1,452,367	1,106,632
	<u>\$20,293,038</u>	<u>\$18,625,025</u>
Liabilities and fund balances		
Current liabilities		
Accounts payable and accrued expenses	\$ 2,547,905	\$ 2,239,961
Unexpended grants and contracts	599,190	213,809
	<u>3,147,095</u>	<u>2,453,770</u>
Deferred dues and subscriptions revenue (note A)	11,649,911	11,262,870
Total current liabilities	14,797,006	13,716,640
Fund balances (note B)		
Restricted by donor:		
Research	180,065	169,930
Special purpose	58,078	50,709
Building fund	50,000	50,000
	<u>288,143</u>	<u>270,639</u>
Unrestricted and Board restricted:		
Equivalent to investment in fixed assets	1,452,367	1,106,632
Reserve for future life member subscriptions to <i>Science</i>	200,000	200,000
Unrealized appreciation on investments (note B)	1,407,955	859,017
Other	2,147,567	2,472,097
	<u>5,207,889</u>	<u>4,637,746</u>
Total fund balances	5,496,032	4,908,385
	<u>\$20,293,038</u>	<u>\$18,625,025</u>

STATEMENT OF REVENUE AND EXPENSE AND UNRESTRICTED FUND BALANCE

	Year ended 31 December	
	1982	1981
Revenue		
Member dues (note A)	\$5,876,390	\$5,159,100
<i>Science</i> Subscriptions (note A)	1,860,081	1,716,237
<i>Science</i> 82 Circulation (note A)	7,361,818	6,539,215
Advertising in <i>Science</i> and Guide	5,587,650	5,157,963
Advertising in <i>Science</i> 82	4,139,377	3,118,433
Product sales	1,186,158	1,380,297
Meeting and exposition	263,232	212,996
Grants, contracts, and related activities (note A)	2,491,965	1,528,243
Contributions and other	278,670	341,830
	<u>29,045,341</u>	<u>25,154,314</u>
Expense		
Executive Office	954,460	936,100
Office of Administration	2,512,353	1,978,994
Office of Comptroller	556,399	516,547
Office of Communications and Membership	1,233,070	871,236
Office of Development	86,239	88,637
Office of Information Systems and Services	154,820	58,166
Editorial center— <i>Science</i>	9,061,217	8,495,900
Editorial center— <i>Science</i> 82	12,140,690	10,939,717

	Year ended 31 December	
	1982	1981
Expense (continued)		
Meetings and publications center	826,979	838,082
Office of Public Sector Programs	678,931	783,689
Office of Science and Technology Education	1,774,405	366,867
Office of Opportunities in Science	437,206	412,197
Office of International Science	588,508	454,005
	<u>31,005,277</u>	<u>26,740,137</u>
Excess of (expense over revenue) before other revenue	(1,959,936)	(1,585,823)
Interest and dividends	1,295,512	1,193,642
Capital distribution of publicly traded investment fund shares	274,275	412,770
Excess of revenue/(expense) before net gain on sale of investments	(390,149)	20,589
Gain on sale of investments—Net	262,734	289,074
	<u>(127,415)</u>	<u>309,663</u>
Bequests and other special gifts	148,620	104,880
Net excess of revenue over expense	21,205	414,543
Increase/(decrease) in unrealized appreciation on investments	548,938	(601,038)
Increase (decrease) in fund balance for the year	570,143	(186,495)
Fund balance, beginning of year	4,637,746	4,824,241
Fund balance, end of year	<u>\$5,207,889</u>	<u>\$4,637,746</u>

NOTES TO FINANCIAL STATEMENTS YEARS ENDED 31 DECEMBER 1982 and 1981

A. Summary of Significant Accounting Policies General

The Association is a nonprofit membership corporation incorporated in 1874 under the laws of the Commonwealth of Massachusetts. The Association follows the accrual basis of accounting. The Association is exempt from federal and state income taxes under Code section 501 (c) (3) with the exception of certain unrelated business income.

Grants and Contracts

Grants are made to the Association each year by the National Science Foundation and other organizations. At December 31, 1982 and 1981, grants and contracts awarded to the Association for which expenditures had not yet been incurred and/or cash had not yet been received were approximately \$6,943,000 and \$7,727,000 respectively.

Dues and Subscriptions Revenue

Dues and subscriptions are recognized as revenue based on elapsed subscription periods. Deferred dues and subscriptions revenue represent the portion of payments received which are applicable to future periods.

B. Investments

All investments are carried at quoted market value.

A summary of investments at market value is as follows:

	31 December	
	1982	1981
United States Treasury bills	\$ 1,450,030	\$ 3,832,221
United States Treasury notes	6,137,907	4,067,125
Publicly traded investments funds—listed New York Stock Exchange	5,891,265	3,914,739
Investments at market	13,479,202	11,814,085
Investments at cost	12,071,247	10,955,068
Unrealized appreciation	<u>\$ 1,407,955</u>	<u>\$ 859,017</u>
The unrealized appreciation, in the aggregate, is reflected in the fund balance as a single item.		