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The 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 improve 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.
Inhibition of insect juvenile hormone esterase delays metamorphosis resulting in giant larvae up to 15 grams in weight (right), which spend twice as much time feeding in the ultimate instar and consume three times as much food as the smaller animal (left). See page 1073. [M. Philpott, Department of Entomology, University of California, Davis 95616]
Beauty, Balance, and Mathematics

Now that female beauty has been reduced to a formula (eye width, three-tenths of the width of the face; chin length, one-fifth of the height of the face; area of the nose, less than 5 percent of the area of the face*), we await the arrival of a formula for the ideal journal. The reader might wonder how decisions can be made in the absence of such mathematical precision. There are indeed historical, philosophical, and economic considerations that guide the policy of a journal.

Science is designed for the sophisticated scientist. Why sophisticated? Because, of course, like beauty, interest in a journal is in the eye of the beholder. Science is a relatively thin magazine compared to most specialty journals, yet it covers the entire range of scientific disciplines. Thus it is inevitable that only a small fraction of the articles can be in an individual scientist's subspecialty. The more curious the reader is about the entire range of science, the more likely he or she is to find something of interest in our pages.

A frequent comment is that Science is biased toward the biological sciences. That is historically true, and Newton's laws of motion apply to magazines as they do to bodies falling through space: to change trajectories requires enormous force. It is the goal of this magazine, of this editor, and of the American Association for the Advancement of Science, which represents all of science, to increase participation of scientists in nonbiological disciplines. To do this at the expense of biological science at a time when biology is flourishing in what appears to be its golden age would be folly. Therefore, the AAAS has wisely decided to add pages to the magazine in order to increase the participation of the physical and social sciences without diminishing the contributions of biological sciences.

Balance does not mean that each proportion of space in the various fields. Our news department emphasizes the physical sciences, as space weaponry occupy an unusually large portion of the news. Reports emphasize biology. Solicited articles, Research News, and Book Reviews reflect our attempts to increase coverage of social and physical sciences. We interpret balance in terms of the entire magazine, and our goal is to ensure that each issue contains items of interest to every type of scientist.

Balance is not achieved by giving every subspecialty equal weight. Fields that flourished in the past may not be as productive in the present and "the past" can be a mere few years ago. We do not wish to forget the past, but we want to emphasize the present and the future.

In the selection process, the economics of publication must play a role. For a wide circulation magazine such as Science (subscriptions 155,000) compared to specialty journals (circulations in 2,000 to 10,000 range), the cost of printing and mailing is enormous. If we want to keep the magazine postable, economical, and comprehensive, topics of the widest impact must be given priority. Seminal articles in any area are welcome, even if they may be difficult reading for many. Intense joy to a small minority of our readership can be as important as mild pleasure to the majority of our audience. An author's anguish when we reject an excellent paper with the statement that it is more appropriate for a specialized journal is matched by our own. This painful selection process is not driven by economics alone; it is also a service to our readers to present a distillation of the best and most general.

Magazines, like species, must adapt to optimize their survival in an ever-changing world. Mutations can occur from within or by suggestions from readers, and this editor particularly welcomes ideas for new features, new emphases, and new concepts. Those who think that their particular specialty is being neglected are encouraged to send specific suggestions to us. We would hope that a mathematical formula would arise to select the good mutations, but in the interim the editor's receptors will have to respond in a serendipitous manner to the most attractive intellectual phenomena provided by our writers and scientists.—Daniel E. Koshyland, Jr.