ACS Election

Twice, now, *Science* has published articles (News and Comment, 29 Oct., p. 455; 3 Dec., p. 981) on the recent American Chemical Society (ACS) presidential election, and in each case the article reflected considerable input from the camp of my opponent, little from my supporters, and none directly from me. I do not consider this equitable and would like to take this belated opportunity to make these points.

1) In the second article it is erroneously stated that "Cotton's strategy was to play upon differences between academic and industrial members of ACS." That is a vile and irresponsible charge, and I think that either *Science* owes me a retraction and an apology or it owes its readers documentation—of which there is none to my knowledge. May I quote from my two official position papers, one published in *Chemical and Engineering News* and the other prepared for distribution to local ACS section magazines:

From the former:

Although my own career has been based in academia, I have had, through consulting and otherwise, abundant and fruitful contact with industrial chemists in both research and production. I am keenly aware of their desire and their right to have truly professional status, and I will support them enthusiastically in this. . . . In whatever we do, we must strive for unity of purpose and a welding together of various subgroups—academic, governmental and industrial—of ACS.

From the latter:

Chemistry is a science, a technology, a business, a profession and, in its impact on the life of the nation, a public concern, [it] can only prosper when all . . . of the above sectors work in harmony. . . . The majority of ACS members find employment in industry and the ACS should give attention to both problems and opportunities attendant thereon. The industrial-oriented doctorate program . . . covering topics . . . relevant to an industrial career is a step to be encouraged at all universities. We should also broaden all ACS programs to aid in the scientific development and continuing education of industrial chemists and chemical engineers. ACS should also encourage policies of continuity, with resulting job stability, in industrial research and development.

In the face of those formal, public positions I took, how does the *Science* reporter justify his vicious accusation? Perhaps the fact that I described my opponent in the so-called "harsh letter" as an "industrial chemist" is construed as a bias on my part against industrial chemists. I do not use the adjective

"industrial" in a pejorative sense. If any industrial chemists chose to take it that way, perhaps they, as individuals, suffer from an inferiority complex. In any event, honi soit qui mal y pense.

- 2) A factional division within the ACS as to its proper policies and purposes did not just arise in this election; it has been there for a decade or more, and this election simply put a spotlight on it. It is not, I repeat not, a simple academic versus industrial division, and Science does the ACS a great disservice by implying such a simplistic interpretation. The problem has to do with how much the ACS should concern itself with what might be broadly described as the social and economic welfare of its members and how far it can act in this direction without concomitant losses in others. This is a serious and proper question, and there are both academic and industrial people on each side. What the ACS needs is rational and constructive discussion of the options. Attempts to polarize the issue falsely by blundering journalists are not helpful.
- 3) My opponent is quoted as saying he won the election by "the largest number of votes reported for anyone winning an ACS election." It is also likely that I got the largest number of votes reported for anyone who ever lost an ACS election. Both the scope and the character of the electioneering by supporters of my opponent were unprecedented in ACS history. Of course they turned out lots of votes. I and my supporters are impressed by their zeal but not by the righteousness of their cause.

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Cotton's point is well taken: it was overgenerous to refer to his campaign methods in terms of "strategy." Something less than strategy may have been at work when he sent out letters describing his opponent as an "indecisive," "defensive," "undistinguished, mid-level industrial chemist... supported by a small but politically hyperactive faction of the ACS whose primary interest is in employment conditions for industrial chemists."

This may have been, as Cotton says, an appeal for a "rational and constructive discussion of the options." But many construed it as an attack on ACS members interested in professional services, particularly industrial members.

—Eliot Marshall

Trypanosomiasis and Meat Production

Donald E. Vermeer's letter (12 Nov., p. 636) about dwarf cattle and trypanosomiasis in Africa notes that many native West African cattle breeds are tolerant of this disease, which is transmitted by the tsetse fly (Glossina spp.). He suggests that these trypano-tolerant breeds might be used to enhance cattle production in areas of central southern Africa infested by the tsetse fly. Most of the few remaining humpless cattle breeds native to Africa (but descendants of European or Asian wild progenitor species) do possess a high degree of tolerance (not true resistance) to trypanosomiasis (1). They constitute valuable animal genetic resources that could be more extensively utilized to enhance meat production in African environments infested by the tsetse fly (1-3). In fact, the declining or endangered trypano-tolerant breeds, such as the N'Dama and West African Shorthorn of West Africa and the Nuba Mountain of Sudan (which reputedly traces its ancestry to humpless trypano-tolerant cattle), have frequently been singled out for conservation (4), especially since trypanosomiasis is one of the few serious cattle diseases that cannot be effectively controlled by veterinary practices.

However, Vermeer does not mention a number of important points relevant to the issue of trypanosomiasis and meat production in Africa:

- 1) Nearly all of these native, trypanotolerant breeds have not been substantially improved genetically for greater production of meat (or milk); although they can survive in environments infested by the tsetse fly, they are not especially productive as rangeland resources per se, and their principal value may well be for crossbreeding with more productive modern breeds.
- 2) Selective culling of wild, trypanoresistant bushmeat species or game ranching of semidomesticated stocks of such native wildlife species often provides more meat per unit area than does husbanding of nontolerant or even tolerant cattle breeds; game ranching is already well organized and has proved successful in parts of South Africa, Rhodesia, Kenya, and other African nations.
- 3) Preferential use of a mixed crop of trypano-resistant, wild, meat-producing species or use of such wildlife resources along with trypano-tolerant cattle breeds is also usually a preferable ecological option; overgrazing by domestic livestock has contributed to desertification