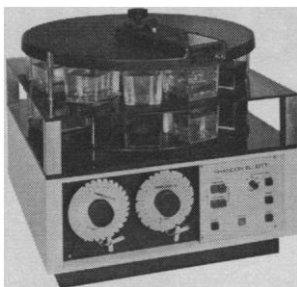


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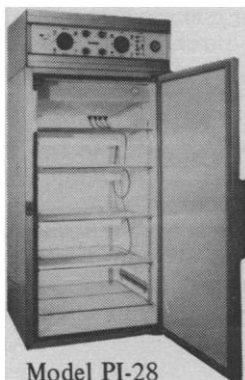


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the farms they have worked for so many centuries, not preachments by urban students now being sent to them in order to persuade them to exchange their old masters for new ones.

It is absurd to claim that the "unique identity of the ruling Amhara elite . . . has helped prevent the formation of culturally or ethnically based foreign alliances." Since when has an ethnic identity prevented alliances between societies holding very different values?

During the French Revolution, when Robespierre was led to his own execution, he predicted that the revolution would die after having killed its own participants. On 23 November 1974, the first victim in Ethiopia was rebel chief General Aman Michael Andom. It is likely that the outcome of the Ethiopian revolution will be another Napoleon, up from the ranks of the armed forces, or perhaps a more traditional Ethiopian-style emperor with sufficient security to practice more benign methods of government. Such a potential emperor already exists in the person of Prince Mengesha Seyyum of the rival, but linked, dynasty of the Province of Tigre. By personality and education he is the most qualified to retain Eritrea, prevent civil war, and promote the material development of Ethiopia.

SIMON D. MESSING\*

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### Standardized References

The Council of Biology Editors (CBE) promotes through the *CBE Style Manual* standardization of form and style in scientific papers in the biological sciences and allied fields. Many recommendations are based on standards that have been formally endorsed by national or international organizations. Progress already has been made in standardizing some aspects of bibliographic style, but the special needs of various disciplines often dictate more practical solutions than a single standard for all disciplines. Our comments below are numbered according to the issues raised by Stoldal and Gordon in their letter of 27 December 1974 (p. 1158).

1) CBE recognizes the desirability of citing references by number within

the text and numbering the references themselves seriatim according to the order of first mention. However, the kind of articles published by a journal sometimes requires a different standard; uniformity for all journals is not practical. For example, a journal publishing papers with numerous equations usually cites references by authors' names and year of publication, thus avoiding the confusion of a double set of numbers; the list of references is alphabetized by authors' names. Other publications containing review articles with numerous references prefer to arrange references alphabetically, with articles by the same author brought together; then the alphabetized references are numbered so citation within the text by number can be printed less expensively.

2) CBE recommends that references include full titles of articles and inclusive page numbers.

3) Standards for abbreviating journal names have already been endorsed by the American National Standards Institute (ANSI) and the International Organization for Standardization (ISO). These abbreviations may be found in the following publications: (i) *International List of Periodical Title Word Abbreviations* [Standards Committee Z39, American National Standards Institute, New York, 1970 (rules for abbreviating individual words accompanied by lists of abbreviated words)]; (ii) *BIOSIS, 1974, Lists of Serials with Coden, Title Abbreviations, New, Changed and Ceased Titles* [BioSciences Information Service of Biological Abstracts, Philadelphia, Pa., 1974 (title self-explanatory)]; and (iii) *Bibliographic Guide for Editors and Authors* [Chemical Abstracts Service and Engineering Index, Inc., Columbus, Ohio, 1974 (full journal names, abbreviated names, codens, and names of services that abstract each journal; no changed and ceased journal names)].

So far, no national or international standard for the order of components within a reference has been agreed upon, although the CBE Style Manual Committee hopes that such a standard currently in preparation by ANSI will have been adopted by the time the 4th edition of the *CBE Style Manual* goes to press in 1976.

MARGARET BROADBENT

EDWARD J. HUTH

*Council of Biology Editors, Style Manual Committee, American Institute of Biological Sciences, 1401 Wilson Boulevard, Arlington, Virginia 22209*

It is a bit discouraging that Stoldal and Gordon are unaware that the kind of standardized reference system they propose has been in effect for 5 years and observed by some 30 medical journals.

A letter from a medical academician's secretary, cited in a *New England Journal of Medicine* editorial (1), initiated this standardization and is worth reading. Unfortunately, a number of prominent publications, such as the *Journal of Clinical Investigation*—or even *Science* for that matter—have not seen fit to join the movement in spite of its patent advantages.

FRANZ J. INGELFINGER

*New England Journal of Medicine, Boston, Massachusetts 02115*

#### References

1. *N. Engl. J. Med.* **282**, 49 (1970).

#### Cultural Homology

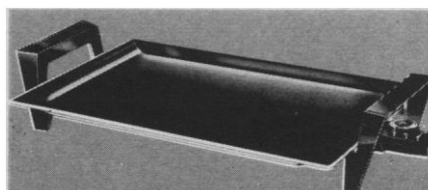
In his lecture "Analogy as a source of knowledge" (19 July 1974, p. 229), delivered on the occasion of his Nobel Prize in Physiology or Medicine, Konrad Z. Lorenz describes the usual morphological homologies and analogies, and, in his view, the equivalent cultural-behavioral homologies and analogies. Comparisons cover the spectrum of animals and man.

Morphological homology is demonstrated by the often-reproduced evidence of Cuvier showing similarities of vertebral anterior limbs, and cultural (technical) homology is demonstrated by the persistence of horse-drawn coach attributes in the development of railway cars. I submit that Lorenz's two homological demonstrations are not comparable.

Lorenz's morphological demonstration is based on the operation of classical Darwinian selection principles—gradual environmental changes, variation within species, and subsequent passage through the sieve of selection. Classical Darwinian theory specifically denies teleology (theological or man-made) in natural selection, that is, denies any plan, direction, or design. However, Lorenz's cultural demonstration is teleological. Those 19th-century mechanical engineers *designed* their railway cars, and, in our own time, they are called design engineers. They waited for no random variations and had no sieve of selection; on the contrary, they had preordained direction.

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