

been my favorite letter (I was practically raised on Oxo), and Xenia is a lovely name and a nice little town. But I did only need 19 consonants, and arbitrariness pursues us even across the savannahs of the blue; it is History, not Science, which gives us 360 degrees, from the Babylonians to the Bahai. But x has glories more renowned than numerology, for what is more splendid than the Unknown? And what more glorious symbol is there for that infinite pursuit of the unknown which is the Being of Science and the End of History?

KENNETH E. BOULDING
Department of Economics,
University College of the West Indies,
Kingston, Jamaica

Genetical Theory

Lederberg's remarks in his Nobel address [*Science* 131, 269 (1960)] demonstrate his commitment to the deoxyribonucleic acid hypothesis and show how a dominant theory enables its proponent to ignore other points of view. A section on the origin of life contains no references to Oparin [*The Origin of Life on the Earth* (Academic Press, New York, 1957)], Miller [*Ann. N.Y. Acad. Sci.* 69, 260 (1957)], or Fox [AAAS General Symposium (26 Dec. 1959)]. Pirie [*Intern. Council Sci. Unions Rev.* 1, 40 (1959)] is described as (of all things!) an "agnostic." The numerous experiments reported from this laboratory [*Proc. Intern. Genet. Symposium No. 42* (1957)], which demonstrate that various carbohydrates will transform a recessive gene into a dominant gene, are disregarded.

Is it proper to ignore the views and the supporting evidence of others in full knowledge? It has become the current practice of proponents of a genetical theory not to comment on work incompatible with the theory. Sinoto's [*Proc. Intern. Congr. Genet. 10th Congr.* (1958), vol. 2, p. 262] recent confirmation of Lysenko's original experiments (which have not been considered seriously by most Western geneticists because of their conflict with Mendelism) is a case in point. It is now apparent that a considerable revision of views (both by East and West) must occur before a comprehensive genetical theory can be achieved. If current reviewers of genetics stated the limitations under which they were writing, it would explain their failure to refute excluded items. Otherwise they arbitrarily narrow the extent of the scientific enterprise.

CARL C. LINDEGREN
Biological Research Laboratory,
Southern Illinois University,
Carbondale

20 MAY 1960



Detailed mass spectra impurity report provided by Bendix Mass Spectrometer helps Eastman Kodak's industrial laboratory guard high quality of photographic products.

EASTMAN KODAK APPLICATION TYPIFIES VALUE OF BENDIX® MASS SPECTROMETER

BY IDENTIFYING MINOR CONSTITUENTS FOUND IN SOLVENTS, a Bendix Time-of-Flight Mass Spectrometer helps maintain tight quality control over Eastman Kodak film. Similarly, important companies in chemicals, petroleum, food, drug, missiles, and many other fields are using this scientific instrument to analyze products, mixtures, and reactions in their research and quality control programs.

STUDY OF EXTREMELY FAST CHEMICAL REACTIONS is possible because the Bendix Mass Spectrometer can make 10,000 analyses or mass spectra per second. An important feature is our newly developed hot filament sample inlet system, available for new Bendix Spectrometers and those now in use. Together with line-of-sight sampling, this facilitates ready analysis of solids. Bendix wide mass range and high resolution are ideal for study of high molecular weight materials. Display may be chart recording, oscilloscope scanning, or both simultaneously.

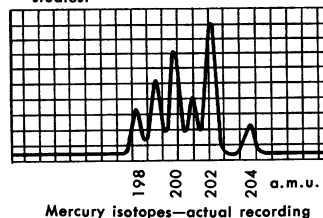
BECAUSE THE ONE INSTRUMENT SERVES MANY USES in analyzing gases, solids and liquids, it gives greater value per-dollar-invested. To learn what advantages it may have for your business, write . . .

OTHER FEATURES

High Resolution—usable adjacent mass resolution beyond 500 atomic mass units.
Wide Mass Range—each spectrum covers 1 through 4,000 a.m.u.'s.
High Sensitivity—demonstrated better than 3 parts per million.
Easily modified for special problems.

APPLICATIONS

Chromatograph output identification.
Molecular beam analysis using Bendix Knudsen Cell or Bendix Hot Filament Sample Introduction Systems (new Bendix accessories).
Chemical kinetics research.
Quantitative analysis.
Ionization potential studies using variable electron energy (standard equipment).
Pyrolysis, pilot plant, and negative ion studies.



Mercury isotopes—actual recording

Department E5-20

Cincinnati Division
3130 Wasson Rd., CINCINNATI 8, Ohio



Export Sales: Bendix International Division, 205 East 42nd Street, New York 17, N. Y.
Canada: Computing Devices of Canada, Ltd., Box 508, Ottawa 4, Ontario.